	PREVEW	CLOSE
Quiz: Simplifying Products of Radicals		

### Question 1a of 15 (3 Products of Radicals 92142)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below?

# √8•√5

	Choice	Feedback
*A.	2√10	Correct!
В.	√13	
C.	4√10	
D.	10√2	

Global Incorrect Feedback	
The correct answer is: $2\sqrt{10}$ .	

## Question 1b of 15 ( 3 Products of Radicals 294890 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below?

# £.5

	Choice	Feedback
Α.	3√3	
*В.	ว√2	Correct!
C.	9√2	

D.	2√5		
		Global Incorrect Feedback	
		The correct answer is:	

## Question 1c of 15 (3 Products of Radicals 294891)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below?

**18.** E

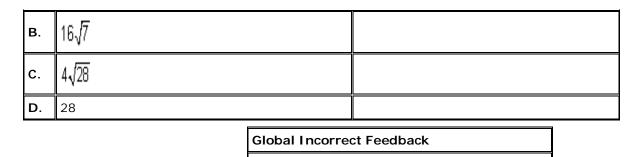
	Choice		Feedback	
Α.	6-/3			
*В.	2~16		Correct!	
C.	3√6			
D.	3√2			
		Global Incorrec	ct Feedback	
		The correct answ	ver is: <mark>7√ĥ</mark>	

## Question 2a of 15 (3 Products of Radicals 92143)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below?

# √14•√8

	Choice	Feedback
*A	4√7	Correct!



The correct answer is:  $4\sqrt{7}$ 

## Question 2b of 15 ( 3 Products of Radicals 294893 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below?

14.16

	Choice	Feedback
Α.	12√i	
В.	E√2E	
*C.	2421	Correct!
D.	28	

Global Incorrect Feedback	
The correct answer is: $2\sqrt{21}$ .	

## Question 2c of 15 ( 3 Products of Radicals 294895 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below?

*4*4,*1*0

Choice	Feedback

Α.	4√7			
В.	1 <b>√</b> 3E			
*C.	2 <b>√</b> 3E		Correct!	
D.	35			
		Global Incorre	ct Feedback	
		The correct ansv	ver is: <b>2-35</b>	

### Question 3a of 15 ( 3 Products of Radicals 92144 )

1
Multiple Choice
2
Which choice is equivalent to the product below?

	Choice	Feedback
Α.	5√2	
В.	2√50	
*C.	10	Correct!
D.	4√25	

#### Global Incorrect Feedback

The correct answer is: 10.

#### Question 3b of 15 (3 Products of Radicals 294898)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below?

# £1516

Choice	Feedback
--------	----------

Α.	2~6			
В.	3√2			
C.	2√3			
*D.	6		Correct!	
		Global Incorrec	ct Feedback	

## The correct answer is: 6.

Question 3c of 15 ( 3 Products of Radicals 294899 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below?

# £1.514

	Choice	Feedback
Α.	4√7	
*B.	8	Correct!
C.	8√2	
D.	4	

#### Global Incorrect Feedback

The correct answer is: 8.

### Question 4a of 15 (3 Products of Radicals 92145)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below?

## √2 •√5 •√8

Choice	Feedback
--------	----------

Α.	16√5	
*В.	4√5	Correct!
C.	4√20	
D.	8√10	

#### Global Incorrect Feedback

The correct answer is:  $4\sqrt{5}$ 

### Question 4b of 15 ( 3 Products of Radicals 294900 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below?

# 6.5.6

	Choice	Feedback
Α.	12√3	
В.	3√5	
*C.	3-/10	Correct!
D.	9√10	
	F	

Global Incorrect Feedback

## Question 4c of 15 ( 3 Products of Radicals 294901 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below?

£.5.6

	Choice	Feedback
*A.	4~/3	Correct!
В.	8√12	
C.	´6√3	
D.	4-/12	

Global Incorrect Fee	dback
The correct answer is:	4√∃_

## Question 5a of 15 (3 Products of Radicals 92146)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? <i>Check all that apply.</i>

5√3

	Choice
Α.	$\sqrt{45}$
*B.	√75
C.	√3 •√5
*D.	√15 • √5
E.	75
*F.	√25 • √3

Attemp	Incorrect Feedback
1st	
Correct Feedback	
	Correct!

### Global Incorrect Feedback

The correct answers are:  $\sqrt{75}$ ,  $\sqrt{15} \cdot \sqrt{5}$ , and  $\sqrt{25} \cdot \sqrt{3}$ .

### Question 5b of 15 ( 3 Products of Radicals 294902 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? <i>Check all that apply.</i>

6 🕢

**Correct Answers:** 

	Cho	bice	
Α.	<i>√</i> 54	4	
*В.	./°08	8	
*C.	√18•√	۶.	
D.	~E+46		
*E.	5.5	ភ្.ភ	
F.	108	108	
Atte	mpt	Incorrect Feedback	
1st			
	С	Correct Feedback	
	Correct!		
	G	Global Incorrect Feedback	
	TI	he correct answers are: The , The , and Su	<u>/</u> ff

Question 5c of 15 ( 3 Products of Radicals 294903 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? <i>Check all that apply.</i>

4√3

Correct Answers:

	Cho	bice		
*A.	12.	2.4		
*В.	√4	3		
C.	<b>4</b> 1	Ī. <del>(</del> 3		
D.	3√1	3√16		
*E.	<i>ħ</i> .	<u>4.5</u>		
F.	48	8		
Atte	ttempt Incorrect Feedback			
1st				
	Correct Feedback			
	Correct!			
	C	Global Incorrect Feedback		
	Т	The correct answers are: $\sqrt{2}$ , $\sqrt{48}$ , and $\sqrt{2}$ , $\sqrt{2}$		

#### Question 6a of 15 ( 3 Products of Radicals 92147 ) Maximum Attempts: 1

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? <i>Check all that apply.</i>

4√6

**Correct Answers:** 

	Choice	
Α.	96	
*B.	√32	2 •√3
C.	$\sqrt{2}$	4
*D.	<b>√</b> 16	5̄ ● √6
*E.	√96	
F.	$\sqrt{4} \cdot \sqrt{36}$	
Atte	Attempt Incorrect Feedback	
1st		
	Correct Feedback	
Correct!		Correct!
	Global Incorrect Feedback	
		The correct answers are: $\sqrt{32} \cdot \sqrt{3}$ , $\sqrt{16} \cdot \sqrt{6}$ , and $\sqrt{96}$ .

## Question 6b of 15 ( 3 Products of Radicals 294904 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? <i>Check all that apply.</i>

3√6

	Choice
*A.	√54
*В.	h7:•h2
c.	√18

D.	<i>4</i> 27 • €4		
*E.	<u> الم ، 9 م</u>		
F.	54		
Atte	Attempt Incorrect Feedback		
1st	st		
	Correct Feedback		
	Correct!		
	Global Incorrect Feedback		
	Т	he correct answers are: $\sqrt{54}$ , $\sqrt{2}$ , $and$ $\sqrt{9}$ , $\sqrt{6}$	

## Question 6c of 15 ( 3 Products of Radicals 294905 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? <i>Check all that apply.</i>

3√8

**Correct Answers:** 

	Choice	
*A.	<u>ب</u> و. ۱	
В.	¥. 1	
*C.	<i>4</i> 5.√ <u>0</u>	
D.	<i>ι</i> Ει√2	
Ε.	72	
*F.	4 - 17	

Attempt Incorrect Feedback

1st	
	Correct Feedback
	Correct!
	Global Incorrect Feedback
	The correct answers are: 柏讷, 如河, and 伽加

## Question 7a of 15 (3 Products of Radicals 92148)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? <i>Check all that apply.</i>

√6 •√8

	Ch	oice
*A.	<b>√</b> 1	6 • √3
*В.	$\sqrt{4}$	8
C.	12	
*D.	4√	3
Ε.	48	
F.	$\sqrt{1}$	4
Atte	mpt	Incorrect Feedback
1st		
	C	Correct Feedback
	C	Correct!
	C	Global Incorrect Feedback
		The correct answers are: $\sqrt{16} \cdot \sqrt{3}$ , $\sqrt{48}$ , and $4\sqrt{3}$ .

### Question 7b of 15 ( 3 Products of Radicals 294906 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? <i>Check all that apply.</i>

√6 • √10

**Correct Answers:** 

	Cho	ice		
Α.	60	50		
*B.	√6i	Ī		
*C.	2√1:	<u>,</u>		
*D.	4.√	5		
Ε.	20			
F.	√10	-		
Atte	mpt	Incorrect Feedback		
1st				
	С	orrect Feedback		
	С	orrect!		
	G	lobal Incorrect Feedback		
	T	he correct answers are: √60 , 2√15 , and √11√15		

### Question 7c of 15 ( 3 Products of Radicals 294907 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? <i>Check all that apply.</i>



#### **Correct Answers:**

	Cho	ice
Α.	J16	
*B.	√32	
C.	12	
*D.	<i>↓</i> 2, <i>}</i>	3
*E.	4.57	ī.
F.	16	
Atte	mpt	Incorrect Feedback
1st		
	С	orrect Feedback
	С	orrect!
	G	lobal Incorrect Feedback
	ТI	he correct answers are: $\sqrt{32}$ , $\sqrt{2}$ , $\sqrt{6}$ , and $\sqrt{2}$

#### Question 8a of 15 ( 3 Products of Radicals 92149 ) Maximum Attempts: 1

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? <i>Check all that apply.</i>

√3•√5•√10

	Choice
Α.	10√15
*B.	5√6
*C.	√1 <u>50</u>

D.	150	150	
E.	15√	10	
*F.	√15	•√10	
Atte	mpt	Incorrect Feedback	
1st			
	С	orrect Feedback	
	С	orrect!	
	Global Incorrect Feedback		
		The correct answers are: $5\sqrt{6}$ , $\sqrt{150}$ , and $15 \cdot \sqrt{10}$	

## Question 8b of 15 (3 Products of Radicals 294908)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? Check all that apply.

	Cho	ice	
*A.	3√20	ī	
В.	5√12		
*C.	√18C	ī	
D.	180		
*E.	<b>√15</b> •√1	2	
F.	9√20		
Atte	empt Incorrect Feedback		

1	st	

Correct Feedback
Correct!
Global Incorrect Feedback
The correct answers are: 3-20 , -180 , and 15-12

## Question 8c of 15 ( 3 Products of Radicals 294909 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? <i>Check all that apply.</i>

£15.10

#### **Correct Answers:**

	Cho	lice
*A.	100	<u>.</u>
*B.	2√2	5
C.	100	
*D.	10	
Ε.	10√10	ō
F.	J15	;
Atte	mpt	Incorrect Feedback
1st		
	С	orrect Feedback
	С	orrect!
	G	lobal Incorrect Feedback

The correct answers are:  $\frac{100}{100}$  ,  $2\frac{15}{25}$  , and 10.

#### Question 9a of 15 (1 Identifying the Radicand 292055)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	

You write a radical sign (  $\$  ) to indicate a square root. The number under this sign is called the radical.

	Choice	Feedback
Α.	True	
*B.	False	Correct!

Global Incorrect Feedback

The correct answer is: False.

#### Question 9b of 15 (1 Identifying the Radicand 294911)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	.[
	You write a radical sign ( ) to indicate a square root. The number
	under this sign is called the radicand.

	Choice	Feedback
*A.	True	Correct!
В.	False	

#### **Global Incorrect Feedback**

The correct answer is: True.

#### Question 9c of 15 (1 Identifying the Radicand 294912)

True-False

1

2

Maximum Attempts:

Question Type:

Maximum Score:

Question:

You write a radical sign ( ) to indicate a square root. The number under this sign is called the radical.

	Choice	Feedback
Α.	True	
*B.	False	Correct!

#### **Global Incorrect Feedback**

The correct answer is: False.

#### Question 10a of 15 (1 Identifying Principal Square Roots 92151)

Maximum Attempts:

Question Type:

True

Α.

True-False

1

Maximum Score: 2

**Question:** Every positive number has two square roots: the principal square root and its opposite.

	Choice	Feedback
*A.	True	Correct!
В.	False	

Global Incorrect Feedback

The correct answer is: True.

#### Question 10b of 15 (1 Identifying Principal Square Roots 294913)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	Every positive number has two square roots: the principal square root and its opposite.

	Choice	Feedback
*A.	True	Correct!
В.	False	

**Global Incorrect Feedback** 

The correct answer is: True.

#### Question 10c of 15 (1 Identifying Principal Square Roots 294914)

Che	oice		Feedback
Question:		Every positive number has only one square root.	
Maximum Score:		2	
Question	туре:	True-False	
Maximur	n Attempts:	1	

**\*B.** False

Correct!

**Global Incorrect Feedback** 

The correct answer is: False.

#### Question 11a of 15 (2 Finding Square Roots 92152)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	What are the square roots of 81? Check all that apply.

**Correct Answers:** 

	Cho	ice	
Α.	9.5		
*B.	9		
C.	3		
*D.	-9		
Ε.	-3		
*F.	9		
Atte	mpt	Incorrect Feedback	
1st			
Correct Feedback			
	Correct!		
	Global Incorrect Feedback		

The correct answers are: |9|, -9, and 9.

#### Question 11b of 15 (2 Finding Square Roots 294915)

1
Multiple Response
2
What are the square roots of 64? Check all that apply.

	Choice
Α.	8.5

В.	4		
*C.	8		
D.	-4		
*E.	-8		
*F.	8		
Atte	mp	t Incorrect Feedback	
1st			
	,	Correct Feedback	
	Correct!		
	Global Incorrect Feedback		
		The correct answers are:  8 , -8, and 8.	

# Question 11c of 15 (2 Finding Square Roots 294916)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	What are the square roots of 100? Check all that apply.

	Choice
*A.	10
В.	10.5
*C.	-10
D.	5
E.	-5
*F.	10

Attempt Incorrect Feedback		
1st		
	Correct Feedback	
Correct!		
Global Incorrect Feedback		
	The correct answers are: 10, -10, and  10 .	

#### Question 12a of 15 (2 Finding Square Roots 92153)

1

Maximum Attempts:

Question Type:Multiple Choice

Maximum Score: 2

Question:

What is the principal square root of 81?

	Choice	Feedback
*A.	9	Correct!
В.	3	
C.	-9	
D.	-3	

Global Incorrect Feedback

The correct answer is: 9.

#### Question 12b of 15 (2 Finding Square Roots 294917)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2

Question: W

What is the principal square root of 64?

	Choice	Feedback
<b>A.</b>	-8	
B. 4	4	
*C. 8	8	Correct!
<b>D</b> .	-4	

Global Incorrect Feedback

The correct answer is: 8.

#### Question 12c of 15 (2 Finding Square Roots 294918)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2

Question:

What is the principal square root of 16?

	Choice	Feedback
Α.	-2	
В.	-4	

C.	2	
*D.	4	Correct!
		Global Incorrect Feedback

The correct answer is: 4.

#### Question 13a of 15 (2 Finding Square Roots 92154)

Choice	Feedback	
Question:	For any number $a$ , $\sqrt{a^2} = $	
Maximum Score:	2	
Question Type:	Multiple Choice	
Maximum Attempts:	1	

	Choice	Feedback	
Α.	<i>a</i> <sup>2</sup>		
В.	<i>a</i> -1		
*C.	<i>a</i>	Correct!	
D.	1		
	Global Incorrect Feedback		

The correct answer is: |a|.

Question 13b of 15 ( 2 Finding Square Roots 294919 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	For any number $a$ , $ a  = $

	Choice	Feedback
Α.	a <sup>2</sup>	
В.	<i>a</i> -1	
С.	1	
*D.	$\sqrt{a^2}$	Correct!

#### Global Incorrect Feedback

The correct answer is:  $\sqrt{a^2}$ .

#### Question 13c of 15 (2 Finding Square Roots 294920)

1

Maximum Attempts:

Question Type:		Multiple Choice		
Maximum Score:		2	2	
Question:		For any number $a$ , $\sqrt{a^2} = $		
	Choice		Feedback	
Α.	a <sup>2</sup>			
*B.	<i>a</i>		Correct!	
C.	1			
D.	<i>a</i> -1			

**Global Incorrect Feedback** The correct answer is: |a|.

#### Question 14a of 15 (2 Finding Square Roots 92155)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	For any nonnegative number $b$ , $\left(\sqrt{b}\right)^2 =$

	Choice	Feedback
Α.	$b^2$	
*B.	b	Correct!
C.	$(\sqrt{b})^2$	
D.	1	

Global Incorrect Feedback

The correct answer is: b.

### Question 14b of 15 ( 2 Finding Square Roots 294921 )

Maximum Attempts:

Question Type:	Multiple Choice
Maximum Score:	2

1

Maximum Score:

For any nonnegative number b, b =\_\_\_\_\_. Question:

	Choice	Feedback
*A.	$(\sqrt{b})^2$	Correct!
В.	$b^2$	

c.	<b>√</b> <i>b</i>			
D.	1			
		Global Incorrec	ct Feedback	
		The correct answ	ver is: $(\sqrt{b})^2$	

#### Question 14c of 15 (2 Finding Square Roots 294923)

1

Maximum Attempts:

Question Type: Multiple Choice

Maximum Score: 2

Question:

For any nonnegative number  $b_i \left(\sqrt{b}\right)^2 =$ \_\_\_\_\_.

	Choice	Feedback
*A.	b	Correct!
В.	$(\sqrt{b})^2$	
C.	$b^2$	
D.	1	
		L

Global Incorrect Feedback

The correct answer is: b.

#### Question 15a of 15 ( 2 Finding Square Roots 92156 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to $\sqrt{0}$ ?

	Choice	Feedback
Α.	1	
В.	√0 <sup>°</sup> - 1	
C.	undefined	
*D.	0	Correct!

Global Incorrect Feedback

The correct answer is: 0.

## Question 15b of 15 ( 2 Finding Square Roots 294924 )

Maximum Attempts:

Question Type:Multiple ChoiceMaximum Score:2Question:Which choice is equivalent

1

Which choice is equivalent to  $\sqrt{0}$ ?

	Choice	Feedback
*A.	0	Correct!
В.	√0 <sup>°</sup> - 1	
C.	undefined	
D.	1	

Global Incorrect Feedback

The correct answer is: 0.

### Question 15c of 15 ( 2 Finding Square Roots 294925 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to $\sqrt{0}$ ?

	Choice	Feedback	
Α.	1		
В.	√0 <sup>°</sup> -1		
*C.	0	Correct!	
D.	undefined		
	Global Incorrect Feedback		

The correct answer is: 0.

	PREVEW	CLOSE
Quiz: Simplifying Products of Radicals		

### Question 1a of 15 (3 Products of Radicals 92142)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below?

# √8•√5

	Choice	Feedback
*A.	2√10	Correct!
В.	√13	
C.	4√10	
D.	10√2	

Global Incorrect Feedback	
The correct answer is: $2\sqrt{10}$ .	

## Question 1b of 15 ( 3 Products of Radicals 294890 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below?

# £.5

	Choice	Feedback
Α.	3√3	
*В.	ว√2	Correct!
C.	9√2	

D.	2√5		
		Global Incorrect Feedback	
		The correct answer is:	

## Question 1c of 15 (3 Products of Radicals 294891)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below?

**18.** E

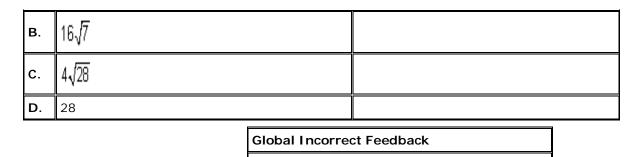
	Choice		Feedback	
Α.	6-/3			
*В.	2~16		Correct!	
C.	3√6			
D.	3√2			
		Global Incorrec	ct Feedback	
		The correct answ	ver is: <mark>7√ĥ</mark>	

## Question 2a of 15 (3 Products of Radicals 92143)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below?

# √14•√8

	Choice	Feedback
*A	4√7	Correct!



The correct answer is:  $4\sqrt{7}$ 

## Question 2b of 15 ( 3 Products of Radicals 294893 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below?

14.16

	Choice	Feedback
Α.	12√i	
В.	E√2E	
*C.	2421	Correct!
D.	28	

Global Incorrect Feedback	
The correct answer is: $2\sqrt{21}$ .	

## Question 2c of 15 ( 3 Products of Radicals 294895 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below?

*4*4,*1*0

-		
	Choice	Feedback

Α.	4√7			
В.	1 <b>√</b> 3E			
*C.	2 <b>√</b> 3E		Correct!	
D.	35			
		Global Incorre	ct Feedback	
		The correct ansv	ver is: <b>2-35</b>	

### Question 3a of 15 ( 3 Products of Radicals 92144 )

1
Multiple Choice
2
Which choice is equivalent to the product below?

	Choice	Feedback
Α.	5√2	
В.	2√50	
*C.	10	Correct!
D.	4√25	

#### Global Incorrect Feedback

The correct answer is: 10.

#### Question 3b of 15 (3 Products of Radicals 294898)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below?

# £1516

Choice	Feedback
--------	----------

Α.	2~6			
В.	3√2			
C.	2√3			
*D.	6		Correct!	
		Global Incorrec	ct Feedback	

## The correct answer is: 6.

Question 3c of 15 ( 3 Products of Radicals 294899 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below?

# £1.514

	Choice	Feedback
Α.	4√7	
*B.	8	Correct!
C.	8√2	
D.	4	

#### Global Incorrect Feedback

The correct answer is: 8.

### Question 4a of 15 (3 Products of Radicals 92145)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below?

## √2 •√5 •√8

Choice	Feedback
--------	----------

Α.	16√5	
*В.	4√5	Correct!
C.	4√20	
D.	8√10	

#### Global Incorrect Feedback

The correct answer is:  $4\sqrt{5}$ 

### Question 4b of 15 ( 3 Products of Radicals 294900 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below?

# 6.5.6

	Choice	Feedback
Α.	12√3	
В.	3√5	
*C.	3-/10	Correct!
D.	9√10	
	F	

Global Incorrect Feedback

## Question 4c of 15 ( 3 Products of Radicals 294901 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below?

£.5.6

	Choice	Feedback
*A.	4~/3	Correct!
В.	8√12	
C.	´6√3	
D.	4-/12	

Global Incorrect Feedback	
The correct answer is:	4√∃_

## Question 5a of 15 (3 Products of Radicals 92146)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? <i>Check all that apply.</i>

5√3

	Choice
Α.	$\sqrt{45}$
*B.	√75
C.	√3 •√5
*D.	√15 • √5
E.	75
*F.	√25 • √3

Attemp	Incorrect Feedback	
1st		
	Correct Feedback	
	Correct!	

### Global Incorrect Feedback

The correct answers are:  $\sqrt{75}$ ,  $\sqrt{15} \cdot \sqrt{5}$ , and  $\sqrt{25} \cdot \sqrt{3}$ .

### Question 5b of 15 ( 3 Products of Radicals 294902 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? <i>Check all that apply.</i>

6 🕢

**Correct Answers:** 

	Cho	bice	
Α.	<i>√</i> 54	√54	
*В.	./°08	8	
*C.	√18•√	۶.	
D.	5.1	<i>√</i> Ξ+ <i>√</i> δ	
*E.	5.5	Σ	
F.	108	108	
Atte	mpt	Incorrect Feedback	
1st			
	С	Correct Feedback	
	С	Correct!	
	G	Global Incorrect Feedback	
	TI	he correct answers are: The , The , and Su	<u>/</u> ff

Question 5c of 15 ( 3 Products of Radicals 294903 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? <i>Check all that apply.</i>

4√3

Correct Answers:

	Cho	bice	
*A.	12.	24	
*В.	√4	3	
C.	<b>4</b> 1	6	
D.	3√1	6	
*E.	<i>ħ</i> .	•5	
F.	48	8	
Atte	mpt	Incorrect Feedback	
1st			
	C	Correct Feedback	
	Correct!		
	C	Global Incorrect Feedback	
	Т	The correct answers are: $\sqrt{2}$ , $\sqrt{48}$ , and $\sqrt{2}$ , $\sqrt{2}$	

#### Question 6a of 15 ( 3 Products of Radicals 92147 ) Maximum Attempts: 1

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? <i>Check all that apply.</i>

4√6

**Correct Answers:** 

	Cho	bice	
Α.	96	96	
*B.	√32	2 •√3	
C.	$\sqrt{2}$	4	
*D.	<b>√</b> 16	5̄ ● √6	
*E.	√90	5	
F.	$\sqrt{4}$	√4 • √36	
Atte	empt Incorrect Feedback		
1st			
	C	Correct Feedback	
	Correct!		
	Global Incorrect Feedback		
	The correct answers are: $\sqrt{32} \cdot \sqrt{3}$ , $\sqrt{16} \cdot \sqrt{6}$ , and $\sqrt{96}$ .		

## Question 6b of 15 ( 3 Products of Radicals 294904 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? <i>Check all that apply.</i>

3√6

	Choice
*A.	√54
*В.	h7:•h2
c.	√18

D.	Æ.	Ę –	
*E.	•9•4	6	
F.	54		
Attempt		Incorrect Feedback	
1st			
	Correct Feedback		
	Correct!		
	Global Incorrect Feedback		
	Т	he correct answers are: $\sqrt{54}$ , $\sqrt{2}$ , $and$ $\sqrt{9}$ , $\sqrt{6}$	

## Question 6c of 15 ( 3 Products of Radicals 294905 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? <i>Check all that apply.</i>

3√8

**Correct Answers:** 

	Choice			
*A.	<u>ب</u> و. ۱			
В.	¥. 1			
*C.	<i>4</i> 5.√ <u>0</u>			
D.	<i>ι</i> Ει√2			
Ε.	72			
*F.	4 - 17			

Attempt Incorrect Feedback

1st	
	Correct Feedback
	Correct!
	Global Incorrect Feedback
	The correct answers are: 柏讷, 如河, and 伽加

# Question 7a of 15 (3 Products of Radicals 92148)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? <i>Check all that apply.</i>

√6 •√8

**Correct Answers:** 

	Ch	oice		
*A.	<b>√</b> 1	6 • √3		
*В.	$\sqrt{4}$	8		
C.	12			
*D.	4√	3		
Ε.	48			
F.	$\sqrt{1}$	4		
Atte	mpt	Incorrect Feedback		
1st				
	C	Correct Feedback		
	C	Correct!		
	C	Global Incorrect Feedback		
	The correct answers are: $\sqrt{16} \cdot \sqrt{3}$ , $\sqrt{48}$ , and $4\sqrt{3}$ .			

### Question 7b of 15 ( 3 Products of Radicals 294906 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? <i>Check all that apply.</i>

√6 • √10

**Correct Answers:** 

	Cho	ice		
Α.	60			
*B.	√6i	Ī		
*C.	2√1:	<u>,</u>		
*D.	4.√	5		
Ε.	20			
F.	√10	-		
Atte	mpt	Incorrect Feedback		
1st				
	С	orrect Feedback		
	С	Correct!		
	G	lobal Incorrect Feedback		
	The correct answers are: $\sqrt{60}$ , $2\sqrt{15}$ , and $\sqrt{1}\sqrt{5}$			

#### Question 7c of 15 ( 3 Products of Radicals 294907 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? <i>Check all that apply.</i>



#### **Correct Answers:**

	Cho	ice
Α.	J16	
*B.	√32	
C.	12	
*D.	<i>↓</i> 2, <i>}</i>	3
*E.	4.57	ī.
F.	16	
Atte	mpt	Incorrect Feedback
1st		
	С	orrect Feedback
	С	orrect!
	G	lobal Incorrect Feedback
	ТI	he correct answers are: $\sqrt{32}$ , $\sqrt{2}$ , $\sqrt{6}$ , and $\sqrt{2}$

#### Question 8a of 15 ( 3 Products of Radicals 92149 ) Maximum Attempts: 1

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? <i>Check all that apply.</i>

√3•√5•√10

#### **Correct Answers:**

	Choice
Α.	10√15
*B.	5√6
*C.	√1 <u>50</u>

D.	150			
E.	15√	10		
*F.	√15	•√10		
Atte	mpt	Incorrect Feedback		
1st				
	Correct Feedback			
	С	orrect!		
	Global Incorrect Feedback			
	The correct answers are: $5\sqrt{6}$ , $\sqrt{150}$ , and $\sqrt{15} \cdot \sqrt{10}$			

# Question 8b of 15 ( 3 Products of Radicals 294908 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? Check all that apply.

**Correct Answers:** 

	Cho	ice		
*A.	3√20	3√20		
В.	5√12			
*C.	√18C	ī		
D.	180			
*E.	<b>√15</b> •√1	2		
F.	9√20			
Atte	mpt	Incorrect Feedback		

1	st	

	Correct Feedback
	Correct!
Global Incorrect Feedback	
The correct answers are: 3-20, -180, and 15-12	

# Question 8c of 15 ( 3 Products of Radicals 294909 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? <i>Check all that apply.</i>

£15.10

#### **Correct Answers:**

	Cho	lice
*A.	100	<u>.</u>
*B.	2√2	5
C.	100	
*D.	10	
Ε.	10√10	ō
F.	J15	;
Atte	mpt	Incorrect Feedback
1st		
	Correct Feedback	
	С	orrect!
	G	lobal Incorrect Feedback

The correct answers are:  $\frac{100}{100}$  ,  $2\frac{15}{25}$  , and 10.

#### Question 9a of 15 (1 Identifying the Radicand 292055)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	

You write a radical sign (  $\$  ) to indicate a square root. The number under this sign is called the radical.

	Choice	Feedback
Α.	True	
*B.	False	Correct!

Global Incorrect Feedback

The correct answer is: False.

#### Question 9b of 15 (1 Identifying the Radicand 294911)

Maximum Attempts:	1	
Question Type:	True-False	
Maximum Score:	2	
Question:	Г	
	You write a radical sign ( ) to indicate a square root. The number	
	under this sign is called the radicand.	

	Choice	Feedback
*A.	True	Correct!
В.	False	

#### **Global Incorrect Feedback**

The correct answer is: True.

#### Question 9c of 15 (1 Identifying the Radicand 294912)

True-False

1

2

Maximum Attempts:

Question Type:

Maximum Score:

Question:

You write a radical sign ( ) to indicate a square root. The number under this sign is called the radical.

	Choice	Feedback
Α.	True	
*B.	False	Correct!

#### **Global Incorrect Feedback**

The correct answer is: False.

#### Question 10a of 15 (1 Identifying Principal Square Roots 92151)

Maximum Attempts:

Question Type:

True

Α.

True-False

1

Maximum Score: 2

**Question:** Every positive number has two square roots: the principal square root and its opposite.

	Choice	Feedback
*A.	True	Correct!
В.	False	

Global Incorrect Feedback

The correct answer is: True.

#### Question 10b of 15 (1 Identifying Principal Square Roots 294913)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	Every positive number has two square roots: the principal square root and its opposite.

	Choice	Feedback
*A.	True	Correct!
В.	False	

**Global Incorrect Feedback** 

The correct answer is: True.

#### Question 10c of 15 (1 Identifying Principal Square Roots 294914)

Che	oice		Feedback	
Question:		Every positive number has only one square root.		
Maximum Score:		2		
Question Type:		True-False		
Maximum Attempts:		1		

**\*B.** False

Correct!

**Global Incorrect Feedback** 

The correct answer is: False.

#### Question 11a of 15 (2 Finding Square Roots 92152)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	What are the square roots of 81? Check all that apply.

**Correct Answers:** 

	Cho	ice	
Α.	9.5		
*B.	9		
C.	3		
*D.	-9		
Ε.	-3		
*F.	9		
Atte	mpt	Incorrect Feedback	
1st			
Correct Feedback			
	Correct!		
	Global Incorrect Feedback		

The correct answers are: |9|, -9, and 9.

#### Question 11b of 15 (2 Finding Square Roots 294915)

1
Multiple Response
2
What are the square roots of 64? Check all that apply.

**Correct Answers:** 

	Choice
Α.	8.5

В.	4		
*C.	8		
D.	-4		
*E.	-8		
*F.	8		
Atte	mp	t Incorrect Feedback	
1st			
	,	Correct Feedback	
		Correct!	
	Global Incorrect Feedback		
		The correct answers are:  8 , -8, and 8.	

# Question 11c of 15 (2 Finding Square Roots 294916)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	What are the square roots of 100? Check all that apply.

**Correct Answers:** 

	Choice
*A.	10
В.	10.5
*C.	-10
D.	5
E.	-5
*F.	10

Attemp	Attempt Incorrect Feedback	
1st		
	Correct Feedback	
Correct!		
	Global Incorrect Feedback	
	The correct answers are: 10, -10, and  10 .	

#### Question 12a of 15 (2 Finding Square Roots 92153)

1

Maximum Attempts:

Question Type:Multiple Choice

Maximum Score: 2

Question:

What is the principal square root of 81?

	Choice	Feedback
*A.	9	Correct!
В.	3	
C.	-9	
D.	-3	

Global Incorrect Feedback

The correct answer is: 9.

#### Question 12b of 15 (2 Finding Square Roots 294917)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2

Question: W

What is the principal square root of 64?

	Choice	Feedback
<b>A.</b>	-8	
B. 4	4	
*C. 8	8	Correct!
<b>D</b> .	-4	

Global Incorrect Feedback

The correct answer is: 8.

#### Question 12c of 15 (2 Finding Square Roots 294918)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2

Question:

What is the principal square root of 16?

	Choice	Feedback
Α.	-2	
В.	-4	

C.	2	
*D.	4	Correct!
		Global Incorrect Feedback

The correct answer is: 4.

#### Question 13a of 15 (2 Finding Square Roots 92154)

Choice	Feedback
Question:	For any number $a$ , $\sqrt{a^2} = $
Maximum Score:	2
Question Type:	Multiple Choice
Maximum Attempts:	1

	Choice	Feedback
Α.	<i>a</i> <sup>2</sup>	
В.	<i>a</i> -1	
*C.	<i>a</i>	Correct!
D.	1	
Global Incorrect Feedback		

The correct answer is: |a|.

Question 13b of 15 ( 2 Finding Square Roots 294919 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	For any number $a$ , $ a  = $

	Choice	Feedback
Α.	a <sup>2</sup>	
В.	<i>a</i> -1	
С.	1	
*D.	$\sqrt{a^2}$	Correct!

#### Global Incorrect Feedback

The correct answer is:  $\sqrt{a^2}$ .

#### Question 13c of 15 (2 Finding Square Roots 294920)

1

Maximum Attempts:

Ques	stion Type: Multiple Choice		
Maxi	mum Score:	2	
Ques	tion:	For any number $a$ , $\sqrt{a^2} = $	
	Choice		Feedback
Α.	a <sup>2</sup>		
*B.	<i>a</i>		Correct!
C.	1		
D.	<i>a</i> -1		

**Global Incorrect Feedback** The correct answer is: |a|.

#### Question 14a of 15 (2 Finding Square Roots 92155)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	For any nonnegative number $b$ , $\left(\sqrt{b}\right)^2 =$

	Choice	Feedback
Α.	$b^2$	
*B.	b	Correct!
C.	$(\sqrt{b})^2$	
D.	1	

Global Incorrect Feedback

The correct answer is: b.

#### Question 14b of 15 ( 2 Finding Square Roots 294921 )

Maximum Attempts:

Question Type:	Multiple Choice
Maximum Score:	2

1

Maximum Score:

For any nonnegative number b, b =\_\_\_\_\_. Question:

	Choice	Feedback
*A.	$(\sqrt{b})^2$	Correct!
В.	$b^2$	

C.	<b>√</b> <i>b</i>			
D.	1			
		Global Incorrec	ct Feedback	
		The correct answ	ver is: $(\sqrt{b})^2$	

#### Question 14c of 15 (2 Finding Square Roots 294923)

1

Maximum Attempts:

Question Type: Multiple Choice

Maximum Score: 2

Question:

For any nonnegative number  $b_i \left(\sqrt{b}\right)^2 =$ \_\_\_\_\_.

	Choice	Feedback
*A.	b	Correct!
В.	$(\sqrt{b})^2$	
C.	$b^2$	
D.	1	
		L

Global Incorrect Feedback

The correct answer is: b.

#### Question 15a of 15 ( 2 Finding Square Roots 92156 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to $\sqrt{0}$ ?

	Choice	Feedback
Α.	1	
В.	√0 <sup>°</sup> - 1	
C.	undefined	
*D.	0	Correct!

Global Incorrect Feedback

The correct answer is: 0.

# Question 15b of 15 ( 2 Finding Square Roots 294924 )

Maximum Attempts:

Question Type:Multiple ChoiceMaximum Score:2Question:Which choice is equivalent

1

Which choice is equivalent to  $\sqrt{0}$ ?

	Choice	Feedback
*A.	0	Correct!
В.	√0 <sup>°</sup> - 1	
C.	undefined	
D.	1	

Global Incorrect Feedback

The correct answer is: 0.

#### Question 15c of 15 ( 2 Finding Square Roots 294925 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to $\sqrt{0}$ ?

	Choice	Feedback	
Α.	1		
В.	√0 <sup>°</sup> -1		
*C.	0	Correct!	
D.	undefined		
	Global Incorrect Feedback		

The correct answer is: 0.

	PREVIEW	CLOSE
Quiz: Multiplying Radicals		

# Question 1a of 15 (3 Multiplying Radicals 92015)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which inequality represents all values of <i>x</i> for which the product below is defined?

 $\sqrt{5x} \cdot \sqrt{x+3}$ 

	Choice		Feedback	
Α.	x3			
*B.			Correct!	
C.	x3			
D.	<i>x</i> > 0			
	Global Incorrect Feedback			

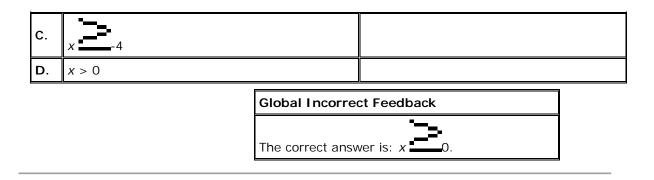
The correct answer is: x = 0.

# Question 1b of 15 ( 3 Multiplying Radicals 295223 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which inequality represents all values of $x$ for which the product below is defined?

# £x+4

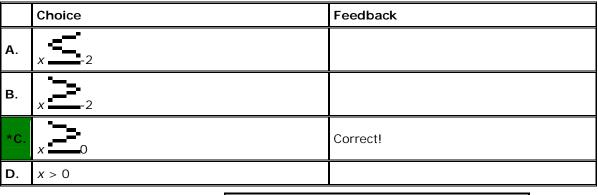
	Choice	Feedback
Α.	x4	
*В.		Correct!

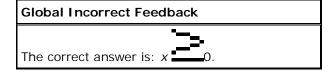


#### Question 1c of 15 (3 Multiplying Radicals 295224)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which inequality represents all values of <i>x</i> for which the product below is defined?

4x+4x+2





#### Question 2a of 15 (3 Multiplying Radicals 92016)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which inequality represents all values of <i>x</i> for which the product below is defined?

$$\sqrt{x-4} \bullet \sqrt{x+1}$$

Choice Feedback

Α.	x4	
В.	x1	
*C.		Correct!
D.		

Global Incorrect Feedback
·

The correct answer is: x = 4.

#### Question 2b of 15 ( 3 Multiplying Radicals 295225 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which inequality represents all values of <i>x</i> for which the product below is defined?

<u>4-5-5-17+1</u>

	Choice		Feedback	
Α.	x 5			
В.	x2			
C.	x0			
*D.	x 5		Correct!	
		Global Incorrec	ct Feedback	
		The correct answ	ver is: x 5.	

# Question 2c of 15 ( 3 Multiplying Radicals 295226 )

1

Maximum Attempts:

Question Type: Multiple Choice

Maximum Score:	2
Question:	Which inequality represents all values of <i>x</i> for which the product below is defined?

	Choice		Feedback	
*A.	x6		Correct!	
В.	x3			
C.	x6			
D.				
		Global Incorrec	ct Feedback	
		The correct answ	ver is: x 6.	

dx-fiedx+3

# Question 3a of 15 (3 Multiplying Radicals 92017)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below for acceptable values of $x$ ?

# $\sqrt{5x} \cdot \sqrt{x+3}$

	Choice	Feedback
*A.	$\sqrt{5x^2 + 15x}$	Correct!
В.	$5x\sqrt{x+3}$	
C.	$\sqrt{5x^2+3}$	
D.	$\sqrt{5x^2 + 15}$	

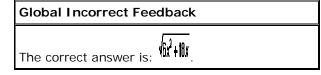
Global Incorrect Fee	edback
The correct answer is:	$\sqrt{5x^2 + 15x}$

#### 

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below for acceptable values of $x$ ?

łóx • fx+3

	Choice	Feedback
Α.	6x <del>v</del> x+3	
В.	√6x <sup>2</sup> +3	
C.	<b>√6x<sup>2</sup> + 18</b>	
*D.	+6x² + 18x	Correct!

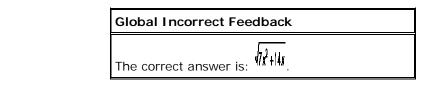


### Question 3c of 15 ( 3 Multiplying Radicals 295228 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below for acceptable values of $x$ ?

# *4*7**x • 4**x+2

	Choice	Feedback
Α.	$\sqrt{\chi^2 + \chi}$	
*В.	$\sqrt{7x^2 + 14x}$	Correct!
C.	$\sqrt{7x^2+7x}$	
D.	v7x <sup>2</sup> +14	



# Question 4a of 15 (3 Multiplying Radicals 92018)

Maximum Attempts: 1 Question Type: Multiple Choice Maximum Score: 2 Question: Which choice is equivalent to the product below for acceptable values of х?

	Choice	Feedback
Α.	$\sqrt{\chi^2}$	
В.	$\sqrt{x^2 + 4}$	
*C.	$\sqrt{\chi^2 - 4}$	Correct!
D.	x	

 $\sqrt{x+2} \cdot \sqrt{x-2}$ 

The correct answer is:  $\sqrt{x^2 - 4}$ 

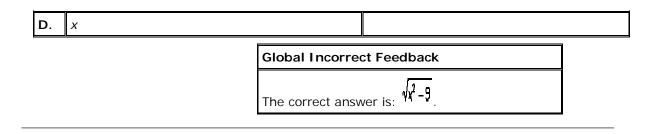
**Global Incorrect Feedback** 

#### Question 4b of 15 (3 Multiplying Radicals 295229)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below for acceptable values of $x$ ?

### £1315-]

	Choice	Feedback
Α.	$\sqrt{\chi^2}$	
*В.	$\sqrt{x^2-9}$	Correct!
C.	√x <sup>2</sup> +9	



#### Question 4c of 15 ( 3 Multiplying Radicals 295230 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below for acceptable values of $x$ ?

h	1	y.l
TO 1 T		пт

	Choice	Feedback
*A.	√x <sup>2</sup> - 1E	Correct!
В.	√x <sup>2</sup> +1E	
C.	x	
D.	$\sqrt{\chi^2}$	

Global Incorrect Feedback	
The correct answer is:	

Question 5a of 15 ( 3 Multiplying Radicals 92019 )

1

Maximum Attempts:

Question Type:

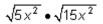
Multiple Choice 2

Maximum Score:

Question:



Which choice is equivalent to the product below when x = 0?



	Choice	Feedback
*A.	5ײ√3	Correct!
В.	$\sqrt{75x^2}$	

C.	5√3×	
D.	$\sqrt{20 \times^2}$	

**Global Incorrect Feedback** 

The correct answer is:  $5x^2\sqrt{3}$ .

#### Question 5b of 15 (3 Multiplying Radicals 295231)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below when $x = 0$ ?

11x • 15X

	Choice	Feedback
Α.	√80x <sup>2</sup>	
В.	5√1×	
*C.	4 <i>x</i> ² √5	Correct!
D.	$\sqrt{20 \times^2}$	

# Global Incorrect Feedback

The correct answer is:  $4x^2 - 5$ .

Feedback

#### Question 5c of 15 (3 Multiplying Radicals 295232)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	· · · · · · · · · · · · · · · · · · ·
	Which choice is equivalent to the product below when $x = 0?$
	+6x <sup>2</sup> + 4/8x <sup>2</sup>

Α.	G√J×			
В.	6-/18x			
C.	√108x <sup>2</sup>			
*D.	6x² √3		Correct!	
		Global Incorre	ct Feedback	

The correct answer is:  $6x^2 \sqrt{6}$ .

#### Question 6a of 15 ( 3 Multiplying Radicals 92020 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	· · · · · · · · · · · · · · · · · · ·
	Which choice is equivalent to the product below when x

 $\sqrt{6x^2} \cdot \sqrt{3x}$ 

	Choice		Feedback	
Α.	$\sqrt{18 \times 2}$			
В.	×√18			
C.	3×√2			
*D.	3x√ <u>2x</u>		Correct!	
		Global Incorrec	ct Feedback	

The correct answer is:  $3x\sqrt{2x}$ .

#### $\label{eq:advector} Output ( \ \texttt{3} \ \texttt{Multiplying} \ \texttt{Radicals} \ \texttt{295233} \ \texttt{)}$

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	
	Which choice is equivalent to the product below when <i>x</i> 0?

	<b>1</b> 0x <sup>2</sup> • 15x	
	Choice	Feedback
Α.	√15 <i>x</i> <sup>2</sup>	
*В.	5x√2x	Correct!
C.	5x-12	
D.	ะ√โว์	

Global Incorrect Feedback

The correct answer is: 5w2x

# Question 6c of 15 (3 Multiplying Radicals 295234)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	· · · · · · · · · · · · · · · · · · ·
	Which choice is equivalent to the product below when $x$

12x • 4x

	Choice	Feedback
Α.	2 <del>√2x<sup>2</sup></del>	
*В.	2x42x	Correct!
C.	√6x	
D.	$\sqrt{8x^2}$	
	F	

Global Incorrect Feedback
The correct answer is: $2\chi\sqrt{2x}$ .

Question 7a of 15 (3 Multiplying Radicals 92021)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below when $x > 0$ ?

 $\sqrt{\frac{5}{\chi^2}} \cdot \sqrt{\frac{\chi^2}{45}}$ 

	Choice	Feedback
Α.	<u>x</u> 3	
*В.	1 3	Correct!
C.	1 9	
D.	<u>×</u> 9	
D.	—	

Global Incorrect Feedback					
The correct answer is:	1 3				

# Question 7b of 15 ( 3 Multiplying Radicals 295235 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below when $x > 0$ ?

 $\int_{x^2}^{1} \frac{1}{81}$ 

	Choice	Feedback
Α.	<u>×</u> 01	
В.	<u>1</u> 81	
*C.	1 9	Correct!
D.	x 9	

Global Incorrect Feedback

Which choice is equivalent to the product below when x > 0?

#### Question 7c of 15 (3 Multiplying Radicals 295237)

Maximum Attempts:

Multiple Choice

Maximum Score: 2

Question:

- -

Question Type:

 $\int_{\frac{1}{2}}^{\frac{1}{2}} \frac{\sqrt{2}}{18}$ 

1

	Choice	Feedback	
Α.	x 3		
В.	1 9		
*C.	1 3	Correct!	
D.	x 9		
Clobal Lagorroot Eoodback			

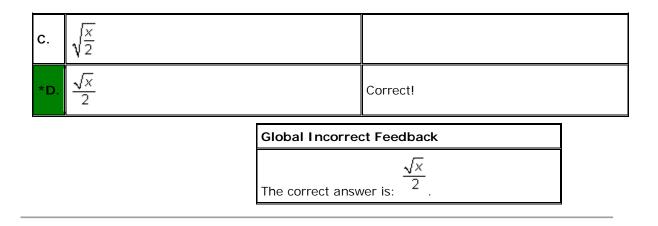
Global Incorrect Feedback
The correct answer is: 3

#### Question 8a of 15 ( 3 Multiplying Radicals 92022 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below when $x > 0$ ?

$$\sqrt{\frac{6}{x}} \cdot \sqrt{\frac{x^2}{24}}$$

	Choice	Feedback
Α.	<u>x</u> 2	
В.	$\frac{\times}{4}$	



#### Question 8b of 15 ( 3 Multiplying Radicals 295238 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below when $x > 0$ ?

# $\sqrt{\frac{2}{x}}, \sqrt{\frac{x^2}{B}}$

	Choice	Feedback
Α.	$\frac{x}{2}$	
*В.	$\frac{\sqrt{x}}{2}$	Correct!
C.	$\sqrt{\frac{x}{2}}$	
D.	$\frac{x}{4}$	

# Global Incorrect Feedback The correct answer is: $\frac{\sqrt{x}}{2}$ .

# Question 8c of 15 (3 Multiplying Radicals 295239)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below when $x > 0$ ?

	Choice		Feedback	
*A.	$\frac{\sqrt{x}}{2}$		Correct!	
В.	$\frac{x}{4}$			
C.	$\sqrt{\frac{x}{2}}$			
D.	$\frac{x}{2}$			
		Global Incorrec	ct Feedback	
		The correct ansv	ver is: $\frac{\sqrt{x}}{2}$ .	

# Question 9a of 15 (1 Multiplying Radicals 117780)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	The number $\sqrt{2x}$ is equivalent to $\sqrt{2x}$ .

	Choice	Feedback
Α.	True	
*B.	False	Correct!

Global Incorrect Feedback
The correct answer is: False.

#### Question 9b of 15 (1 Multiplying Radicals 295240)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	The number $\sqrt{2x}$ is equivalent to $x\sqrt{2}$

	Choice	Feedback
Α.	True	

 $\sqrt{\frac{3}{x}}, \sqrt{\frac{x^2}{12}}$ 

*B. False	Correct!	
	Global Incorrect Feedback	]
	The correct answer is: False.	1
		•

#### Question 9c of 15 (1 Multiplying Radicals 295241)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	The number $\sqrt{2x}$ is equivalent to $\sqrt{x^2}$ .

	Choice	Feedback
*A.	True	Correct!
В.	False	

Global Incorrect Feedback

The correct answer is: True.

#### Question 10a of 15 (2 Multiplying Radicals 117783)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	If a radical is multiplied by a number or variable, you should put the number or variable the radical sign.

Choice	Feedback
below	
before	Correct!
after	
above	
	below before after

Global Incorrect Feedback
The correct answer is: before.

#### Question 10b of 15 ( 2 Multiplying Radicals 295242 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	If a radical is multiplied by a number or variable, you should put the

number or variable \_\_\_\_\_ the radical sign.

	Choice		Feedback	
Α.	above			
В.	below			
C.	after			
*D.	before		Correct!	
	[	Global Incorre	t Feedback	

The correct answer is: before.

#### Question 10c of 15 (2 Multiplying Radicals 295243)

1

2

Maximum Attempts:

Multiple Choice

Maximum Score:

**Question Type:** 

Question:

If a radical is multiplied by a number or variable, you should put the number or variable \_\_\_\_\_ the radical sign.

	Choice	Feedback
Α.	below	
В.	after	
*C.	before	Correct!
D.	above	

Global Incorrect Feedback

The correct answer is: before.

#### Question 11a of 15 (1 Multiplying Radicals 291658)

Question:	If an original expression is defined for all values of <i>x</i> , you do <i>not</i> need to specify the absolute value in the simplified expression.	
Maximum Score:	2	
Question Type:	True-False	
Maximum Attempts:	1	

	Choice		Feedback	
Α.	True			
*B.	False		Correct!	
		Global Incorrec	ct Feedback	

The correct answer is: False.

#### Question 11b of 15 (1 Multiplying Radicals 295244)

1

Maximum Attempts:

Question:

**Question Type:** True-False Maximum Score: 2 If an original expression is defined for all values of x, you do not need to specify the absolute value in the simplified expression.

	Choice	Feedback
Α.	True	
*B.	False	Correct!

**Global Incorrect Feedback** 

The correct answer is: False.

#### Question 11c of 15 (1 Multiplying Radicals 295245)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	If an original expression is defined for all values of <i>x</i> , you do <i>not</i> need to specify the absolute value in the simplified expression.

	Choice	Feedback
Α.	True	
*B.	False	Correct!

**Global Incorrect Feedback** 

The correct answer is: False.

#### Question 12a of 15 (1 Multiplying Radicals 117785)

Choice		Feedback
Question:	The multiplication property expressions.	works when the radicands are rational
Maximum Score:	2	
Question Type:	True-False	
Maximum Attempts:	1	

	Choice	Feedback
*A.	True	Correct!
В.	False	

**Global Incorrect Feedback** 

#### Question 12b of 15 (1 Multiplying Radicals 295246)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	The multiplication property works when the radicands are rational expressions.

	Choice	Feedback
*A.	True	Correct!
В.	False	
Б.		

Global Incorrect Feedback
The correct answer is: True.

#### Question 12c of 15 (1 Multiplying Radicals 295247)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	The multiplication property works when the radicands are rational expressions.

	Choice	Feedback
*A.	True	Correct!
В.	False	

#### Global Incorrect Feedback

The correct answer is: True.

#### Question 13a of 15 ( 2 Multiplying Radicals 117786 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What can you say about <i>B</i> if the following statement is true?

$$(\sqrt{B})^2 = B$$

	Choice	Feedback
Α.	B must be a negative value.	

В.	B must be a whole number.	
*C.	B must be a nonnegative value.	Correct!
D.	B must be a nonpositive value.	

**Global Incorrect Feedback** The correct answer is: *B* must be a nonnegative value.

#### $\label{eq:advector} Output ( \ \ 2 \ \ Multiplying \ \ Radicals \ \ 295248 \ )$

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What can you say about <i>B</i> if the following statement is true?

$$(\sqrt{B})^2 = B$$

	Choice	Feedback
*A.	B must be a nonnegative value.	Correct!
В.	B must be a whole number.	
C.	<i>B</i> must be a negative value.	
D.	B must be a nonpositive value.	

Global Incorrect Feedback
The correct answer is: <i>B</i> must be a nonnegative value.

#### Question 13c of 15 ( 2 Multiplying Radicals 295249 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What can you say about <i>B</i> if the following statement is true?

$(\sqrt{B})^2 = B$	
--------------------	--

	Choice	Feedback
Α.	<i>B</i> must be a negative value.	
В.	B must be a whole number.	
C.	<i>B</i> must be a nonpositive value.	
*D.	<i>B</i> must be a nonnegative value.	Correct!

#### Global Incorrect Feedback

The correct answer is: *B* must be a nonnegative value.

#### Question 14a of 15 (2 Multiplying Radicals 117788)

Maximum Attempts:1Question Type:Multiple ChoiceMaximum Score:2Question:Which choice is equivalent to the expression below? Use the FOIL<br/>method.

	Choice	Feedback
Α.	$x + \sqrt{x} - 6$	
В.	$x + \sqrt{x} + 6$	
C.	<i>x</i> - 6	
*D.	$x = \sqrt{x} = 6$	Correct!

# $\left(\sqrt{X} + 2\right)\left(\sqrt{X} - 3\right)$

# Global Incorrect Feedback

The correct answer is:  $x - \sqrt{x} - 6$ .

#### Question 14b of 15 (2 Multiplying Radicals 295250)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the expression below? Use the FOIL method.

 $(\sqrt{x} - 2)(\sqrt{x} + 3)$ 

	Choice	Feedback
*A.	$x + \sqrt{x} - 6$	Correct!
В.	$x + \sqrt{x} + 6$	
C.	<i>x</i> - 6	
D.	$x - \sqrt{x} - 6$	

#### Global Incorrect Feedback

The correct answer is:  $x + \sqrt{x} - 6$ .

#### Question 14c of 15 (2 Multiplying Radicals 295251)

Maximum Attempts:1Question Type:Multiple ChoiceMaximum Score:2Question:Which choice is equivalent to the expression below? Use the FOIL<br/>method.

(√× .	- 3)(√X	-4)
-------	---------	-----

	Choice	Feedback
Α.	$x + \sqrt{x} - 12$	
В.	$x + \sqrt{x} + 12$	
*C.	x - <sup>√x</sup> - 12	Correct!
D.	<i>x</i> - 12	

# **Global Incorrect Feedback** The correct answer is: $x - \sqrt{x} - 12$ .

#### Question 15a of 15 (2 Multiplying Radicals 117790)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below? Use the FOIL method.

$$(\sqrt{x} - 5)(\sqrt{2x} - 4)$$

	Choice	Feedback
*A.	$x\sqrt{2} = 4\sqrt{x} = 5\sqrt{2x} + 20$	Correct!
В.	$x\sqrt{2} = 5\sqrt{2x} + 20$	
C.	x √2 _ 4 √x _ 5 √2 × _ 20	
D.	$x\sqrt{2} - 4\sqrt{x} + 20$	

Global Incorrect Feedback				
The correct answer is:	×√2_	4-√×	5√2× +	20.

#### Question 15b of 15 ( 2 Multiplying Radicals 295252 )

Multiple Choice

1

Maximum Attempts: Question Type:

Maximum Score:

Question:

2 Which choice is equivalent to the product below? Use the FOIL method.

 $(\sqrt{x} - 4)(\sqrt{2x} - 5)$ 

	Choice	Feedback
Α.	$x\sqrt{2} = 4\sqrt{x} = 5\sqrt{2x} + 20$	
в.	$x\sqrt{2} = 5\sqrt{2x} + 20$	
*C.	×√2 5√x 4√2x + 20	Correct!
D.	$x\sqrt{2} - 4\sqrt{x} + 20$	

# **Global Incorrect Feedback** The correct answer is: $x\sqrt{2} = 5\sqrt{X} = 4\sqrt{2X} + 20$ .

#### Question 15c of 15 (2 Multiplying Radicals 295253)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the product below? Use the FOIL method.

$$(\sqrt{x} - 5)(\sqrt{2x} + 4)$$

	Choice	Feedback
Α.	$x\sqrt{2} = 4\sqrt{x} = 5\sqrt{2x} + 20$	
В.	$x\sqrt{2} = 5\sqrt{2x} + 20$	
*C.	$x\sqrt{2} + 4\sqrt{x} - 5\sqrt{2x} - 20$	Correct!
D.	$x\sqrt{2} - 4\sqrt{x} + 20$	

Global Incorrect Feedback
The correct answer is: $x\sqrt{2} + 4\sqrt{x} = 5\sqrt{2x} - 20$

	ANSWER	CLOSE
Quiz: Dividing Radicals		

#### Question 1a of 14 (2 Dividing Radicals 92157)

1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

Which inequality represents all values of *x* for which the quotient below is defined?

$$\sqrt{7x^2} \div \sqrt{3x}$$
• OA.  $x > 1$ 
• OB.  $x$ 
• OC.  $x > 0$ 
• OD.  $x > -1$ 

#### Question 1b of 14 (2 Dividing Radicals 295308)

1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

Which inequality represents all values of *x* for which the quotient below is defined?



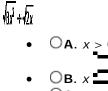
- **OA**. *x* > -1
- Ов. х
- OC. x
- **OD**. x > 1

Question 1c of 14 (2 Dividing Radicals 295309)

1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

Which inequality represents all values of *x* for which the quotient below is defined?



OC. x > 1

• OD. x > -1

#### Question 2a of 14 (2 Dividing Radicals 92158)

1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

Which inequality represents all values of x for which the quotient below is defined?

$$\sqrt{30(x-1)} \div \sqrt{5x^2}$$
  
• OA.  $x > 1$   
• OB.  $x < -1$   
• OC.  $x$  -1

#### Question 2b of 14 (2 Dividing Radicals 295310)

1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

Which inequality represents all values of *x* for which the quotient below is defined?

$$\sqrt{28(x-1)} \div \sqrt{8x^2}$$

$$OA. x = 1$$

$$OB. x < -1$$

$$OC. x = -1$$

$$OD. x > 1$$

Question 2c of 14 (2 Dividing Radicals 295311)

1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

Which inequality represents all values of *x* for which the quotient below is defined?



- OA. x > 1
- OB. x < −1</li>

#### Question 3a of 14 (3 Dividing Radicals 92159)

1 attempt (2 points possible) **Multiple Choice:** Please select the best answer and click "submit."

Which choice is equivalent to the quotient shown here for acceptable values of x?

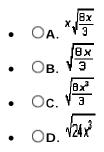
$$\sqrt{7x^{2}} \div \sqrt{3x}$$
• OA.  $\sqrt{\frac{7x}{3}}$ 
• OB.  $\sqrt{\frac{7x}{3}}$ 
• OC.  $\sqrt{\frac{7x}{3}}$ 
• OD.  $\sqrt{21x^{3}}$ 

#### Question 3b of 14 (3 Dividing Radicals 295312)

1 attempt (2 points possible) **Multiple Choice:** Please select the best answer and click "submit."

Which choice is equivalent to the quotient shown here for acceptable values of x?

16x<sup>2</sup> ÷ 15x



**Question 3c of 14** ( 3 Dividing Radicals 295313 ) 1 attempt (2 points possible) Multiple Choice: Please select the best answer and click "submit."

Which choice is equivalent to the quotient shown here for acceptable values of x?

• OA. 
$$\sqrt{45x^3}$$
  
• OB.  $\sqrt{\frac{9x}{5}}$   
• OC.  $\sqrt{\frac{9x^3}{5}}$   
• OD.  $x\sqrt{\frac{9x}{5}}$ 

#### Question 4a of 14 (3 Dividing Radicals 92160)

1 attempt (2 points possible) **Multiple Choice:** Please select the best answer and click "submit."

Which choice is equivalent to the quotient shown here for acceptable values of x?

$$\sqrt{30(x-1)} \div \sqrt{5(x-1)^2}$$
• OA.  $\sqrt{6(x-1)}$ 
• OB.  $\sqrt{30(x-1)-5(x-1)^2}$ 
• OC.  $\sqrt{150(x-1)^3}$ 
• OD.  $\sqrt{\frac{6}{(x-1)}}$ 

#### Question 4b of 14 (3 Dividing Radicals 295314)

1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

Which choice is equivalent to the quotient shown here for acceptable values of x?



• Оа. 
$$\sqrt{\frac{5}{(x-1)}}$$
  
• Ов.  $\sqrt{\frac{5}{(x-1)}}$ 

Question 4c of 14 (3 Dividing Radicals 295315)

1 attempt (2 points possible) Multiple Choice: Please select the best answer and click "submit."

Which choice is equivalent to the quotient shown here for acceptable values of x?

$$\sqrt{12(x-1)} \div \sqrt{2(x-1)^2}$$
• OA.  $\sqrt{6(x-1)}$ 
• OB.  $\sqrt{\frac{6}{(x-1)}}$ 
• OC.  $\sqrt{\frac{6}{(x-1)}}$ 
• OD  $\sqrt{\frac{4}{x-1}}$ 

#### Question 5a of 14 (3 Dividing Radicals 92161)

1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

Which choice is equivalent to the quotient shown here when x > 0?

 $\sqrt{14x^3} \div \sqrt{7x}$ OA. x<sup>2</sup>√2
OB. 2x

- Oc. √2x
- OD. <sup>×</sup>√<sup>2</sup>

Question 5b of 14 (3 Dividing Radicals 295316)

1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

Which choice is equivalent to the quotient shown here when x > 0?

₩?÷∳x

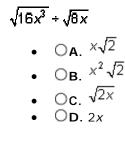
- OA. ×<sup>2</sup>√2
- Ов. ×√2
- Oc. √<sup>2x</sup>
- OD. 2x

#### Question 5c of 14 (3 Dividing Radicals 295318)

1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

Which choice is equivalent to the quotient shown here when x > 0?



#### Question 6a of 14 (3 Dividing Radicals 92162)

1 attempt (2 points possible) Multiple Choice: Please select the best answer and click "submit."

Which choice is equivalent to the quotient shown here when x > 0?

 $\sqrt{35x^5} \div \sqrt{7x^3}$ 

- **OB**. 5*x*
- Oc. ×<sup>2</sup> √5
- **OD**.  $5x^2$

Question 6b of 14 (3 Dividing Radicals 295320)

1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

Which choice is equivalent to the quotient shown here when x > 0?

# ₩÷₽

- ο**α**. x<sup>2</sup> √7 •
- Ов. 7х
- **OC**.  $7x^2$
- Ор. X^/7

## Question 6c of 14 (3 Dividing Radicals 295321)

1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

Which choice is equivalent to the quotient shown here when x > 0?



- O**A**. 2*x*
- <sub>Ов.</sub> х² √2
- Oc. x √2 OD. 2x<sup>2</sup>

Question 7a of 14 (3 Dividing Radicals 92163)

1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

Which choice is equivalent to the quotient shown here when x = 0?



• Oc. 
$$\frac{3\sqrt{x}}{4}$$

#### Question 7b of 14 (3 Dividing Radicals 295323)

1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

Which choice is equivalent to the quotient shown here when x

₩÷4



- <u>з√х</u> Ов. 10
- Oc. √<del>x</del>
- Ор. <sup>//Вх-50</sup>

#### Question 7c of 14 (3 Dividing Radicals 295325)

1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

Which choice is equivalent to the quotient shown here when x

₩x÷₩

- О**в**. <sup>З</sup>√х
- Oc.  $\sqrt{\frac{x}{14}}$
- O**D**. <sup>3</sup>√x

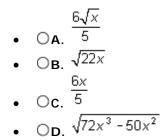
Question 8a of 14 (3 Dividing Radicals 92164)

1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

Which choice is equivalent to the quotient shown here when x > 0?

$$\sqrt{72x^3} \div \sqrt{50x^2}$$

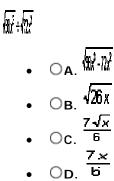


#### Question 8b of 14 (3 Dividing Radicals 295327)

1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

Which choice is equivalent to the quotient shown here when x > 0?

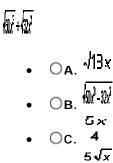


Question 8c of 14 (3 Dividing Radicals 295328)

1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

Which choice is equivalent to the quotient shown here when x > 0?



Od. 4

#### Question 9a of 14 (1 Dividing Radicals 117792)

1 attempt (2 points possible)

True-False: Please select true or false and click "submit."

Before the possible values of x for a quotient of radical expressions can be determined, each radicand's possible values of x must be considered.

- OA. True
- OB. False

#### Question 9b of 14 (1 Dividing Radicals 295329)

1 attempt (2 points possible)

True-False: Please select true or false and click "submit."

Before the possible values of *x* for a quotient of radical expressions can be determined, each radicand's possible values of *x* must be considered.

- OA. True
- OB. False

#### Question 9c of 14 (1 Dividing Radicals 295330)

1 attempt (2 points possible)

True-False: Please select true or false and click "submit."

Before the possible values of x for a quotient of radical expressions can be determined, each radicand's possible values of x must be considered.

- OA. True
- OB. False

#### Question 10a of 14 (2 Dividing Radicals 117793)

1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

For what values of x is the expression below defined?

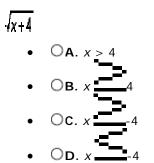
 $\sqrt{x+3}$ 

• OA. x > 3• OB. x

#### Question 10b of 14 (2 Dividing Radicals 295334)

1 attempt (2 points possible) **Multiple Choice:** Please select the best answer and click "submit."

For what values of *x* is the expression below defined?



#### Question 10c of 14 (2 Dividing Radicals 295335)

1 attempt (2 points possible) **Multiple Choice:** Please select the best answer and click "submit."

For what values of *x* is the expression below defined?

```
√x+5
```

- \_ <
- UB. X
- OC. x 5
- Op. x \_\_\_\_\_-5

#### Question 11a of 14 (2 Dividing Radicals 117796)

1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

For what values of *x* is the expression below defined?

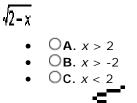
 $\sqrt{1-x}$ 

- OC. x \_\_\_\_1
- OD. *x* < 1

Question 11b of 14 (2 Dividing Radicals 295338)

1 attempt (2 points possible) **Multiple Choice:** Please select the best answer and click "submit."

For what values of *x* is the expression below defined?



• OD. x \_\_\_\_2

#### Question 11c of 14 (2 Dividing Radicals 295339)

1 attempt (2 points possible) **Multiple Choice:** Please select the best answer and click "submit."

For what values of x is the expression below defined?

- OB. x
- OC. x > -3
- OD. *x* < 3

Question 12a of 14 (2 Dividing Radicals 117799)

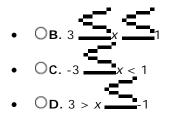
1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

For what values of x is the expression below defined?

1

$$\sqrt{x+3} \div \sqrt{1-x}$$
• OA. 3 > x >

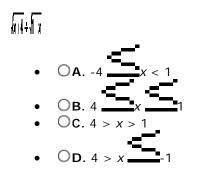


## Question 12b of 14 (2 Dividing Radicals 295341)

1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

For what values of *x* is the expression below defined?

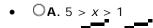


#### Question 12c of 14 (2 Dividing Radicals 295343)

1 attempt (2 points possible) **Multiple Choice:** Please select the best answer and click "submit."

For what values of *x* is the expression below defined?

**€** ₩+5÷**√**-x



- OB. 5 \_\_\_\_\_ 1
- OC. 5 > x
- OD. -5

Question 13a of 14 (2 Dividing Radicals 117801)

1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

For what values of x is the expression below defined?

$$\sqrt{2x^2} \div \sqrt{5x}$$

- **OA**. x = 0
- **OB**. *x* < 0
- OC. x < 1
- **OD**. x > 0

#### Question 13b of 14 (2 Dividing Radicals 295345)

1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

For what values of *x* is the expression below defined?

l∰r ÷ l₄x

- **OA**. x = 0
- **OB**. *x* < 0
- OC. *x* < 1
- OD. x > 0

#### Question 13c of 14 (2 Dividing Radicals 295346)

1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

For what values of x is the expression below defined?

₩*i* ÷₩x

- **OA**. x = 0
- **OB**. *x* < 0
- OC. x < 1</li>
- OD. x > 0

Question 14a of 14 (3 Dividing Radicals 117826)

1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

Which choice represents the simplified form of the expression below and the values of x for which it is defined?

$$\sqrt{3x^3} \div \sqrt{x}$$
• **OA**.  $x\sqrt{3}$  when  $x > 0$ 
• **OB**.  $x\sqrt{3}$  when  $x > 1$ 
• **OC**.  $x\sqrt{3}$  when  $x < 0$ 

• OD.  $x\sqrt{2x}$  when x > 0

#### Question 14b of 14 (3 Dividing Radicals 295348)

1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

Which choice represents the simplified form of the expression below and the values of x for which it is defined?

# • OA. X-15 when x < 0

• Oc 
$$x \sqrt{5}$$
 when  $x > 0$ 

$$- x - \sqrt{2x}$$

• **OD**. 
$$x\sqrt{2x}$$
 when  $x > 0$ 

Question 14c of 14 (3 Dividing Radicals 295350)

1 attempt (2 points possible)

Multiple Choice: Please select the best answer and click "submit."

Which choice represents the simplified form of the expression below and the values of x for which it is defined?

$$\overrightarrow{\mathbf{N}} + \overleftarrow{\mathbf{n}}$$
•  $\mathbf{A}$ .  $\mathbf{x} - \overleftarrow{\mathbf{n}}$  when  $\mathbf{x} > 1$ 
•  $\mathbf{B}$ .  $\mathbf{x} - \overleftarrow{\mathbf{n}}$  when  $\mathbf{x} > 0$ 
•  $\mathbf{C}$ .  $\mathbf{x} - \overleftarrow{\mathbf{n}}$  when  $\mathbf{x} < 0$ 

• OD.  $x\sqrt{2x}$  when x > 0

	PREVIEW	CLOSE	
Quiz: Adding and Subtracting Radicals			

## $Question \ 1a \ of \ 15$ ( 3 Adding and Subtracting Radicals 92023 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the expression below?

## $\sqrt{28} + 8\sqrt{7}$

	Choice	Feedback
Α.	9√35	
В.	8√35	
C.	12√7	
*D.	10√7	Correct!

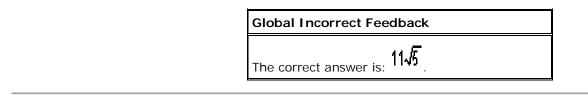
# **Global Incorrect Feedback** The correct answer is: $10\sqrt{7}$ .

## $\label{eq:adding} Question \ 1b \ of \ 15 \ ( \ {\tt 3} \ {\tt Adding} \ {\tt and} \ {\tt Subtracting} \ {\tt Radicals} \ {\tt 295475} \ )$

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the expression below?

# *√*£5+8√5

	Choice	Feedback
Α.	9-115	
В.	8-45	
*C.	1∵√5	Correct!
D.	13~5	



## Question 1c of 15 (3 Adding and Subtracting Radicals 295476)

Maximum Attempts:

Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the expression below?

₩+8+5

1

	Choice	Feedback
*A.	<sup>.</sup> 0√5	Correct!
В.	·3-/5	
C.	·2 <b>4</b> 5	
D.	9√25	

Global Incorrect Feedback	
The correct answer is: 10-15.	

#### Question 2a of 15 (3 Adding and Subtracting Radicals 92024)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the expression below?

## $\sqrt{50} - \sqrt{2}$

	Choice	Feedback
*A.	4√2	Correct!
В.	$\sqrt{48}$	
C.	5	

D.	24√2
	$-\cdot \gamma -$

Global Incorrect Feedback

The correct answer is:  $4\sqrt{2}$ .

## Question 2b of 15 (3 Adding and Subtracting Radicals 295477)

1
Multiple Choice
2
Which choice is equivalent to the expression below?

\$<u>5</u>-\$

	Choice	Feedback
Α.	√ <del>3</del> 0	
*В.	3√2	Correct!
C.	4	
D.	ر <del>ا</del> ا	
		Lucennest Fredherels

Global Incorrect Feedback

## Question 2c of 15 (3 Adding and Subtracting Radicals 295478)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the expression below?

# √E-12

	Choice	Feedback
Α.	3	
В.	√16	

*C.	2√2		Correct!	
D.	16.12			
		Global Incorrec	ct Feedback	
		The correct ansv	ver is: <b>2√2</b>	

#### Question 3a of 15 (3 Adding and Subtracting Radicals 92025)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the expression below?

$$5\sqrt{10} + \sqrt{40} + \sqrt{90}$$

	Choice	Feedback
Α.	7√10	
В.	18√10	
C.	13√10	
*D.	10√10	Correct!

**Global Incorrect Feedback** The correct answer is:  $10\sqrt{10}$ .

## $\label{eq:adding} Ouestion ~3b~of~15~(~{\tt 3}~{\tt Adding}~{\tt and}~{\tt Subtracting}~{\tt Radicals}~{\tt 295479}~)$

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the expression below?

# ю́ю́К+Я́

	Choice	Feedback
Α.	7√10	
В.	18√10	

*C.	13√10	Correct!
D.	10√10	

**Global Incorrect Feedback** 

The correct answer is:  $13\sqrt{10}$ .

# Question 3c of 15 (3 Adding and Subtracting Radicals 295480)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the expression below?

. Ariter A

	Choice	Feedback
*A.	7√10	Correct!
В.	18√10	
C.	13√10	
D.	10√10	

**Global Incorrect Feedback** The correct answer is:  $7\sqrt{10}$ .

## Question 4a of 15 (3 Adding and Subtracting Radicals 92026)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the expression below?

 $\sqrt{27} - \sqrt{12} + \sqrt{48}$ 

	Choice	Feedback
Α.	29√3	
В.	21√3	
C.	9√3	

\***D**. 5√3

Global Incorrect Feedback

The correct answer is:  $5\sqrt{3}$ .

## Question 4b of 15 (3 Adding and Subtracting Radicals 295481)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the expression below?

h-&+5

	Choice	Feedback
*A.	4~3	Correct!
В.	21√3	
C.	9√3	
D.	5√3	

Global Incorrect Feedback
The correct answer is: 4.3.

## Question 4c of 15 (3 Adding and Subtracting Radicals 295482)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the expression below?

# Ð-6+K

	Choice	Feedback
* <b>A</b> .	4√5	Correct!
В.	5-15	

C.	o√5	
D.	·3↓5	
	Global Incorr	ect Feedback

The correct answer is:  $4\sqrt{5}$ .

Question 5a of 15 (3 Adding and Subtracting Radicals 92027)

1
Multiple Choice
2
Which choice is equivalent to the expression below?

	Choice	Feedback
Α.	$-x^2$	
*В.	$4\sqrt{7} - 4 \times \sqrt{7}$	Correct!
C.	0	
D.	-2x√7	

Global Incorrect Feedback
The correct answer is: $4\sqrt{7} - 4x\sqrt{7}$

## $\label{eq:adding} Question ~5b~of~15~(~{\tt 3}~{\tt Adding}~{\tt and}~{\tt Subtracting}~{\tt Radicals}~{\tt 295483}~)$

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the expression below?

# 54 1.v v1

	Choice	Feedback
Α.	- X <sup>2</sup>	
В.	0	
*C.	5-17 - 5x-17	Correct!

D.	-2×√7	
		Global Incorrect Feedback
		The correct answer is:

## Question 5c of 15 (3 Adding and Subtracting Radicals 295484)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the expression below?

M - M - M

	Choice	Feedback
Α.	- <i>x</i> <sup>2</sup>	
В.	-2x√7	
С.	0	
*D.	647-6x47	Correct!

Global Incorrect Feedback	
The correct answer is:	

## $Question \ 6a \ of \ 15$ ( 3 Adding and Subtracting Radicals 92028 )

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the expression below?

 $5 \times \sqrt{2} - 3\sqrt{2} + \times \sqrt{2}$ 

	Choice	Feedback
Α.	3×√2	
*В.	6×√2 - 3√2	Correct!
C.	2ײ√2	

<b>D</b> . $5x^2\sqrt{2}$	
---------------------------	--

Global Incorrect Feedback

The correct answer is:  $6x\sqrt{2} - 3\sqrt{2}$ 

## $Question \ 6b \ of \ 15 \ ( \ {\tt 3} \ {\tt Adding} \ {\tt and} \ {\tt Subtracting} \ {\tt Radicals} \ {\tt 295485} \ )$

1
Multiple Choice
2
Which choice is equivalent to the expression below?

	Choice		Feedback
Α.	3×√2		
В.	7x² √2		
C.	2ײ√2		
*D.	1wl-2b		Correct!
		Global Incorrec	ct Feedback

The correct answer is:

## Question 6c of 15 (3 Adding and Subtracting Radicals 295486)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the expression below?

# 3.42-44.+K2

	Choice	Feedback
*A.	8x \$ 2 - 4 \$ 2	Correct!
в.	6×√2 - 3√2	

C.	5ײ√2	
D.	3×√2	

Global Incorrect Feedback

The correct answer is:

## Question 7a of 15 (3 Adding and Subtracting Radicals 92029)

Maximum Attempts:1Question Type:Multiple ChoiceMaximum Score:2Question:

Which choice is equivalent to the expression below when y = 0?

$$\sqrt{y^3} + \sqrt{9y^3} - 3y\sqrt{y}$$

	Choice	Feedback
Α.	$\sqrt{10y^3} - 3y\sqrt{y}$	
В.	y√10y −3y√y	
C.	-2y_11y	
*D.	v√v	Correct!

Global Incorrect Feedback
The correct answer is: $\sqrt[y]{y}$ .

#### Question 7b of 15 (3 Adding and Subtracting Radicals 295487)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the expression below when $y = 0?$

N+18-44

Choice Feedback
-----------------

Α.	√67 <sup>1</sup> - 21√F			
В.	y 454y - 24 4y			
*C.	v√v		Correct!	
D.	-y <sub>4</sub> 6y			
		Global Incorre	ct Feedback	
		The correct answ	ver is: $y\sqrt{y}$ .	

## $Question \ 7c \ of \ 15 \ ( \ {\tt 3} \ {\tt Adding} \ {\tt and} \ {\tt Subtracting} \ {\tt Radicals} \ {\tt 295488} \ )$

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	
	Which choice is equivalent to the expression below when $y$ $0?$

桶桶

	Choice	Feedback
Α.	171 <sup>7</sup> -414	
*В.	$y\sqrt{y}$	Correct!
C.	y4 <del>∏y</del> -4y4y	
D.	-3y√l7y	

Glob	Global Incorrect Feedback	
The c	correct answer is:	<i>v</i> √ <i>v</i> .

 $Question \ 8a \ of \ 15$  ( 3 Adding and Subtracting Radicals 92030 )

Maximum Attempts:1Question Type:Multiple ChoiceMaximum Score:2

Question:

Which choice is equivalent to the expression below when x = 0?

$$\sqrt{50x^3} - \sqrt{25x^3} + 5\sqrt{x^3} - \sqrt{2x^3}$$

	Choice	Feedback
Α.	5√2×	
*B.	4×√2×	Correct!
C.	$4\sqrt{\times}$	
D.	$28\sqrt{x^3}$	

Global Incorrect Feedback
The correct answer is: $4x\sqrt{2x}$ .

#### Question 8b of 15 (3 Adding and Subtracting Radicals 295489)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	
	Which choice is equivalent to the expression below when x0?

erre

	Choice	Feedback	
Α.	3√2x		
в.	4 <i>×</i> √2×		
*C.	3x√2x	Correct!	
D.	√18x <sup>3</sup>		
<u> </u>			

Global Incorrect Feedback	
The correct answer is: $3x\sqrt{2x}$ .	

Question 8c of 15 (3 Adding and Subtracting Radicals 295490)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	
	Which choice is equivalent to the expression below when x

# W.&.W.V

	Choice	Feedback
*A.	<b>Ͻ</b> ϫ√Ͻϫ	Correct!
В.	2√2x	
C.	4√x	
D.	v10x <sup>2</sup>	

Global Incorrect Feedback

The correct answer is: 2x/2x

## Question 9a of 15 (1 Adding and Subtracting Radicals 117952)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	You can add radical expressions by combining like terms and then adding them together.

	Choice	Feedback
*A.	True	Correct!
В.	False	

Global Incorrect Feedback	
The correct answer is: True.	

## Question 9b of 15 (1 Adding and Subtracting Radicals 295491)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	You can add radical expressions by combining like terms and then

#### adding them together.

	Choice	Feedback	
*A.	True	Correct!	
В.	False		

The correct answer is: True.

## Question 9c of 15 (1 Adding and Subtracting Radicals 295492)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	You can add radical expressions by combining like terms and then adding them together.

	Choice	Feedback
*A	True	Correct!
В.	False	

Global Incorrect Feedback

The correct answer is: True.

#### Question 10a of 15 (1 Adding and Subtracting Radicals 117954)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Two radical expressions are called like terms if they have the same degree and the same

	Choice	Feedback
Α.	number	
В.	radical	
*C.	radicand	Correct!
D.	term	
Ε.	denominator	

Global	Incorr	ect Feed	back	<u> </u>	

The correct answer is: radicand.

#### Question 10b of 15 (1 Adding and Subtracting Radicals 295493)

Maximum Attempts:1Question Type:Multiple ChoiceMaximum Score:2

Question:

Two radical expressions with the same degree and the same \_\_\_\_\_ are called like terms.

	Choice	Feedback
Α.	number	
*B.	radicand	Correct!
C.	radical	
D.	term	
Ε.	denominator	

Global Incorrect Feedback

The correct answer is: radicand.

#### Question 10c of 15 (1 Adding and Subtracting Radicals 295494)

 Maximum Attempts:
 1

 Question Type:
 Multiple Choice

 Maximum Score:
 2

 Question:
 Two radical expressions are called like terms if they have the same degree and the same \_\_\_\_\_.

	Choice	Feedback
Α.	number	
В.	radical	
C.	denominator	
D.	term	
*E.	radicand	Correct!

Global Incorrect Feedback
The correct answer is: radicand.

#### Question 11a of 15 (2 Adding and Subtracting Radicals 117958)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	If you need to add radical expressions that have different radicands, you should determine whether you can subtract a radical expression

#### and then combine like terms.

	Choice		Feedback	
Α.	True			
*B.	False		Correct!	
		Global Incorrec	ct Feedback	
		The correct answ	ver is: False.	

#### Question 11b of 15 (2 Adding and Subtracting Radicals 295495)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	If you need to add radical expressions that have different radicands, you should determine whether you can subtract a radical expression and then combine like terms.

	Choice	Feedback
Α.	True	
*B.	False	Correct!

#### **Global Incorrect Feedback**

The correct answer is: False.

#### Question 11c of 15 (2 Adding and Subtracting Radicals 295496)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	If you need to add radical expressions that have different radicands, you should determine whether you can subtract a radical expression and then combine like terms.

	Choice	Feedback
Α.	True	
*B.	False	Correct!

#### **Global Incorrect Feedback**

The correct answer is: False.

Question 12a of 15 (3 Adding and Subtracting Radicals 117960)

Maximum Attempts: 1

Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the expression below?

 $\sqrt{20}$  +  $\sqrt{45}$ 

	Choice	Feedback
Α.	-5√5	
*B.	5√5	Correct!
C.	√5	
D.	25	

Global Incorrect Feedback

The correct answer is:  $5\sqrt{5}$  .

## Question 12b of 15 (3 Adding and Subtracting Radicals 295497)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the expression below?

## √20 + √80

	Choice		Feedback	
Α.	-5√5			
В.	25			
C.	√5			
*D.	6√5		Correct!	
		Global Incorrec	ct Feedback	

The correct answer is:  $6\sqrt{5}$ .

Question 12c of 15 (3 Adding and Subtracting Radicals 295498)

1	
Multiple Choice	
2	
Which choice is equivalent to the	expression below?
	2

√5+√125

	Choice		Feedback	
*A.	8~15		Correct!	
В.	-8√5			
C.	√5			
D.	25			
		Global Incorre	ct Feedback	

The correct answer is:	8√5
------------------------	-----

Question 13a of 15 (3 Adding and Subtracting Radicals 117970)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the expression below?

3√3 <sub>+</sub> √12

3√3	
5√2	
5√3	Correct!
3√2	
5.	- √2 √3

Global Incorrect Fe	edback
The correct answer is	5√3

Question 13b of 15 (3 Adding and Subtracting Radicals 295499) Maximum Attempts: 1

Maximum Attempts:	l
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the expression below?.

	Choice	Feedback
*A.	7-\3	Correct!
В.	5√2	
C.	5√3	
D.	7√2	

Global Incorrect Feedback	
The correct answer is:	7√5_

## Question 13c of 15 (3 Adding and Subtracting Radicals 295500)

1
Multiple Choice
2
Which choice is equivalent to the expression below?.

## 2√2+√18

543+112

	Choice	Feedback
Α.	7√3	
*В.	5√2	Correct!
C.	5√3	
D.	1√2	

Global Incorrect Feedback

The correct answer is:  $5\sqrt{2}$ .

## Question 14a of 15 (3 Adding and Subtracting Radicals 117972)

Maximum Attempts:1Question Type:Multiple ChoiceMaximum Score:2

Question:

Which choice is equivalent to the expression below?

	Choice	Feedback
Α.	6√2	
В.	4√2	
C.	3√2	
*D.	8√2	Correct!

Global Incorrect Feedback	
The correct answer is: $8\sqrt{2}$ .	

# Question 14b of 15 (3 Adding and Subtracting Radicals 295501)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the expression below?

# 1.0±4B±€

	Choice	Feedback
Α.	6√2	
В.	8√2	
*C.	7.12	Correct!
D.	4√2	

Global Incorrect Fee	edback
The correct answer is:	7√2

### Question 14c of 15 (3 Adding and Subtracting Radicals 295502)

1
Multiple Choice
2
Which choice is equivalent to the expression below?

A+**A**-A

	Choice		Feedback	
Α.	6√2			
В.	4√2			
*C.	9-12		Correct!	
D.	8√2			
		Global Incorre	ct Feedback	
		The correct ansv	ver is: 9√2	

### Question 15a of 15 (3 Adding and Subtracting Radicals 117976)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the expression below?

4×√19 <sub>+</sub> √20×<sup>3</sup> \_ 3×√76

Choice	Feedback
2×(√5× - √19)	Correct!
√5x_ √19	
2x√5x	
2×√19	
	2×(√5× - √19) √5×_ √19 2×√5×

Global Incorrect Feedback	
The correct answer is: $2x(\sqrt{5x} - \sqrt{19})$ .	

Question 15b of 15 (3 Adding and Subtracting Radicals 295503)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the expression below?

	Choice	Feedback
Α.	2x√5x	
В.	√5x_ √19	
*C.	2×(√5× - √19)	Correct!
D.	2×√19	

#### Global Incorrect Feedback

The correct answer is:  $2x(\sqrt{5x} - \sqrt{19})$ 

# Question 15c of 15 (3 Adding and Subtracting Radicals 295504)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the expression below?

# 

	Choice	Feedback
Α.	2×√19	
В.	√5x_ √19	
C.	2x√5x	
*D.	2×(√5× - √19)	Correct!

Global Incorrect Feedback	
The correct answer is: $2x(\sqrt{5x} - \sqrt{19})$	ā) <sub>.</sub>

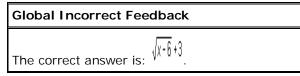
	PREVIEW	CLOSE
Quiz: Rationalizing Denominators		

#### Question 1a of 15 (2 Rationalizing Denominators 92031)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	
	Which choice is the conjugate of the expression below when $x$ 6?

√x - 6 - 3

	Choice	Feedback
Α.	<u>√x-6</u> -3	
В.	<u>√x+6</u> +3	
*C.	√x-6+3	Correct!
D.	√x+6 -3	



### Question 1b of 15 (2 Rationalizing Denominators 295557)

Maximum Attempts:1Question Type:Multiple ChoiceMaximum Score:2Question:2

Which choice is the conjugate of the expression below when x 5?

<b>√</b> x-5-2
----------------

	Choice	Feedback
Α.	√ <del>x+5</del> +2	
В.	<b>√</b> x-5-2	

c.	√x+5-2			
*D.	-lx-5+2		Correct!	
		Global Incorrec	ct Feedback	
		The correct answ	ver is: 15+2.	

### Question 1c of 15 (2 Rationalizing Denominators 295558)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	· · · · · · · · · · · · · · · · · · ·
	Which choice is the conjugate of the expression below when x 4?

**√**x-4-5

	Choice	Feedback
*A.	√x-4+5	Correct!
В.	√x+4-5	
C.	-lx+1+5	
D.	√ <u>x-4</u> -5	

Global Incorrect Feedback	
The correct answer is: $\sqrt{\frac{1}{1}}$	

#### Question 2a of 15 (2 Rationalizing Denominators 92032) Maximum Attempts: 1

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	· · · · · · · · · · · · · · · · · · ·
	Which choice is the conjugate of the expression below when $x$ -4?

$$5-\sqrt{x+4}$$

	Choice	Feedback
*A.	$5 + \sqrt{x+4}$	Correct!
В.	$5 - \sqrt{x+4}$	
C.	$5 + \sqrt{x - 4}$	
D.	$5-\sqrt{x-4}$	

Global Incorrect Feedback
The correct answer is: $5 + \sqrt{x+4}$ .

Question 2b of 15 (2 Rationalizing Denominators 295559)

Maximum Attempts:1Question Type:Multiple ChoiceMaximum Score:2Question:

Which choice is the conjugate of the expression below when x -4?

**4** - √x+5

	Choice		Feedback
Α.	4- √x+5		
В.	4-1x-5		
*C.	4+ <del>1</del> X+5		Correct!
D.	4 - <del>[x 5</del>		
		Global Incorrec	ct Feedback

The correct answer is: 4+4x+5

Question 2c of 15 (2 Rationalizing Denominators 295560)

Maximum Attempts: 1 Question Type: M

Type:Multiple ChoiceScore:2

Maximum Score:

Question:

Which choice is the conjugate of the expression below when x = -4?

 $5 - \sqrt{x+4}$ 

	Choice	Feedback
*A.	$5 + \sqrt{x+4}$	Correct!
В.	$5 - \sqrt{x+4}$	
C.	$5 + \sqrt{x - 4}$	
D.	$5 - \sqrt{x - 4}$	

Global Incorrect Feedback

The correct answer is:  $5 + \sqrt{x+4}$ .

Question 3a of 15 (3 Rationalizing Denominators 92033)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	19
Question:	Rationalize the denominator of the fraction and enter the new denominator below.



Attempt Incorrect Feedback		
1st		
	С	orrect Feedback
	Correct!	
	G	lobal Incorrect Feedback
	The correct answer is: 19.	

Question 3b of 15 (3 Rationalizing Denominators 295561)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	11

Question:

Rationalize the denominator of the fraction and enter the new denominator below.



		4+10	
Attempt Incorrect Feedback			
1st			
	Correct Feedback		
	Correct!		
	G	lobal Incorrect Feedback	
	Tł	ne correct answer is: 11.	

### Question 3c of 15 (3 Rationalizing Denominators 295562)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	31
Question:	Rationalize the denominator of the fraction and enter the new denominator below.

 $\frac{6}{6+\sqrt{5}}$ 

Attempt Incorrect Feedback		Incorrect Feedback
1st		
	С	orrect Feedback
Correct!		orrect!
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 31.

#### Question 4a of 15 (3 Rationalizing Denominators 92034) Maximum Attempts: 1

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	-2
Question:	Rationalize the denominator of the fraction and enter the new denominator below.



Attemp	Attempt Incorrect Feedback	
1st		
Correct Feedback		
Correct!		
	Global Incorrect Feedback	
	The correct answer is: -2.	

# Question 4b of 15 (3 Rationalizing Denominators 295563)

Maximum Attempts:	1	
Question Type:	Numeric Fill In Blank	
Maximum Score:	2	
Correct Answer:	-8	
Question:	Rationalize the denominator of the fraction and enter the new denominator below.	

Attemp	tempt Incorrect Feedback	
1st		
Correct Feedback		
Correct!		
	Global Incorrect Feedback	
	The correct answer is: -8.	

# Question 4c of 15 (3 Rationalizing Denominators 295564)

Maximum Attempts:	1	
Question Type:	Numeric Fill In Blank	
Maximum Score:	2	
Correct Answer:	-4	
Question:	Rationalize the denominator of the fraction and enter the new denominator below.	
	<u>_6</u> 3- √13	

Attempt Incorrect Feedback

1st	
	Correct Feedback
	Correct!
Global Incorrect Feedback	
	The correct answer is: -4.

#### Question 5a of 15 (3 Rationalizing Denominators 92035)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the fraction below when <i>x</i> is an appropriate value? <i>Hint: Rationalize the denominator and simplify.</i>

	Choice	Feedback
Α.	$\frac{3 + \sqrt{6x}}{9 - 2x}$	
*B.	$\frac{3 + \sqrt{6x}}{3 - 2x}$	Correct!
C.	$\frac{3 + \sqrt{6x}}{3 - 6x}$	
D.	$\frac{3 + \sqrt{6x}}{9 - 6x}$	

# Global Incorrect Feedback The correct answer is: $\frac{3 + \sqrt{6x}}{3 - 2x}$

# Question 5b of 15 (3 Rationalizing Denominators 295566)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the fraction below when <i>x</i> is an appropriate value? <i>Hint: Rationalize the denominator and simplify.</i>

	2 2- √6×	
	Choice	Feedback
*A.	$\frac{2+\sqrt{6x}}{2-3x}$	Correct!
В.	$\frac{2+\sqrt{6x}}{2-6x}$	
C.	<u>2+√6×</u> <u>4-5×</u>	
D.	$\frac{2+\sqrt{6x}}{4-3x}$	

Global Incorrect Feedback

The correct answer is:  $\frac{2+\sqrt{6x}}{2-3x}$ .

#### Question 5c of 15 (3 Rationalizing Denominators 295567)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the fraction below when <i>x</i> is an appropriate value? <i>Hint: Rationalize the denominator and simplify.</i>

 $\frac{4}{4-\sqrt{6x}}$ 

	Choice	Feedback
Α.	<u>E+2+Ex</u> 8-67	
В.	<u>Е+2+бх</u> 'Э-би	
C.	<u>2+√6x</u> 4−3x	
*D.	<u>ε+2νεx</u> 8-3 <i>s</i>	Correct!

#### Global Incorrect Feedback

	£+2 <b>√</b> E×	
The correct answer is:	8-3×	

The correct answer is:

Question 6a of 15 (3 Rationalizing Denominators 92036)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the fraction below when <i>x</i> is an appropriate value? <i>Hint: r</i> ] <i>Rationalize the denominator and simplify.</i>

		5
5	+	√10×

	Choice	Feedback
* <b>A</b> .	$\frac{5 - \sqrt{10x}}{5 - 2x}$	Correct!
В.	<u>5 - √10x</u> 5 - 10x	
C.	$\frac{5 - \sqrt{10x}}{25 - 2x}$	
D.	<u>5 - √10x</u> 25 - 10x	

Global Incorrect Feedback	
	$\frac{5 - \sqrt{10x}}{5}$
The correct answer is:	5-2x

# Question 6b of 15 (3 Rationalizing Denominators 295568)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the fraction below when <i>x</i> is an appropriate value? <i>Hint: Rationalize the denominator and simplify.</i>

 $\frac{\overline{5}}{6+\sqrt{12x}}$ 

	Choice	Feedback
Α.	$\frac{6-\sqrt{12x}}{E-12x}$	
В.	$\frac{6-\sqrt{12x}}{36-12x}$	
C.	$\frac{6-\sqrt{12x}}{35-6x}$	

*D. $\frac{6-\sqrt{12x}}{6-2x}$	Correct!
	Global Incorrect Feedback
	The correct answer is: $\frac{6-\sqrt{12x}}{6-2x}$ .

### Question 6c of 15 (3 Rationalizing Denominators 295569)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the fraction below when <i>x</i> is an appropriate value? <i>Hint: Rationalize the denominator and simplify.</i>

 $\frac{7}{7+\sqrt{14x}}$ 

	Choice	Feedback
*A.	$\frac{7-\sqrt{14x}}{7-2x}$	Correct!
В.	$\frac{7-\sqrt{14x}}{49-2x}$	
C.	$\frac{7-\sqrt{14x}}{\overline{i}-14x}$	
D.	$\frac{7-\sqrt{14x}}{29-14x}$	

Global Incorrect Feedback	
7- <del>114x</del>	
The correct answer is:	7-2x

### Question 7a of 15 (3 Rationalizing Denominators 92037)

 Maximum Attempts:
 1

 Question Type:
 Multiple Choice

 Maximum Score:
 2

 Question:
 Which choice is equivalent to the fraction below when x 1? Hint: Rationalize the denominator and simplify.

$$\frac{1}{\sqrt{x} - \sqrt{x - 1}}$$

	Choice	Feedback
Α.	$-\sqrt{x} - \sqrt{x-1}$	
*В.	$\sqrt{x} + \sqrt{x-1}$	Correct!
C.	$\sqrt{x} - \sqrt{x-1}$	
D.	$\frac{\sqrt{x} + \sqrt{x-1}}{2x-1}$	

#### Global Incorrect Feedback

The correct answer is:  $\sqrt{x} + \sqrt{x-1}$ .

# Question 7b of 15 (3 Rationalizing Denominators 295570)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	
	Which choice is equivalent to the fraction below when <i>x</i> 1? <i>Hint: Rationalize the denominator and simplify.</i>

	Choice	Feedback
Α.	-4x-1-4x	
*B.	$\sqrt{x} + \sqrt{x-1}$	Correct!
C.	$\sqrt{x} - \sqrt{x - 1}$	
D.	$\frac{\sqrt{x} + \sqrt{x-1}}{2x-1}$	
Global Incorrect Feedback		

The correct answer is:  $\sqrt{x} + \sqrt{x-1}$ .

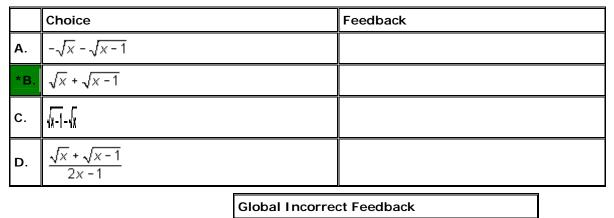
Question 7c of 15 (3 Rationalizing Denominators 295572)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2

Question:

Which choice is equivalent to the fraction below when *x* **1**? *Hint: Rationalize the denominator and simplify.* 

$$\frac{1}{\sqrt{x} - \sqrt{x - 1}}$$



- The correct answer is:  $\sqrt{x} + \sqrt{x-1}$
- Question 8a of 15 (3 Rationalizing Denominators 92038)

Maximum Attempts: Question Type: Maximum Score: Question:

Multiple Choice

1

2

Which choice is equivalent to the fraction below when *x* 2? *Hint: Rationalize the denominator and simplify.* 

$$\frac{4}{\sqrt{x} - \sqrt{x - 2}}$$

	Choice	Feedback
Α.	$-2(\sqrt{x}-\sqrt{x-2})$	
*B.	$2(\sqrt{x} + \sqrt{x-2})$	Correct!
C.	$-2(\sqrt{x}+\sqrt{x-2})$	
D.	$2(\sqrt{x} - \sqrt{x-2})$	

#### Global Incorrect Feedback

The correct answer is:  $2(\sqrt{x} + \sqrt{x-2})$ .

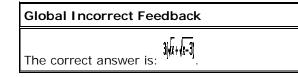
#### Question 8b of 15 (3 Rationalizing Denominators 295573)

Maximum Attempts:1Question Type:Multiple ChoiceMaximum Score:2Question:

Which choice is equivalent to the fraction below when *x* 3? *Hint: Rationalize the denominator and simplify.* 

 $\frac{9}{\sqrt{x}-\sqrt{x-3}}$ 

	Choice	Feedback
*A.	3(√x + √x-3)	Correct!
В.	-3(4x-4x-2)	
C.	-3(4x+4x-2)	
D.	3(yx-yx-3)	



#### Question 8c of 15 (3 Rationalizing Denominators 295574)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	
	Which choice is equivalent to the fraction below when <i>x</i> 2? <i>Hint: Rationalize the denominator and simplify.</i>

 $\frac{4}{\sqrt{x-2}-\sqrt{x}}$ 

	Choice	Feedback
Α.	$-2(\sqrt{x}-\sqrt{x-2})$	
В.	$2(\sqrt{x} + \sqrt{x-2})$	
*C.	$-2(\sqrt{x}+\sqrt{x-2})$	Correct!
D.	$2(\sqrt{x}-\sqrt{x-2})$	

#### Global Incorrect Feedback

The correct answer is:  $-2(\sqrt{x} + \sqrt{x-2})$ 

#### Question 9a of 15 (1 Rationalizing Denominators 117987)

 Maximum Attempts:
 1

 Question Type:
 Multiple Choice

 Maximum Score:
 2

 Question:
 To get rid of radicals in the denominator of a fraction, you should rationalize the denominator by multiplying the fraction by a helpful form of \_\_\_\_\_.

	Choice	Feedback
Α.	the denominator	
*B.	1	Correct!
C.	the numerator	
D.	x	

#### Global Incorrect Feedback

The correct answer is: 1.

#### Question 9b of 15 (1 Rationalizing Denominators 295575)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	To get rid of radicals in the denominator of a fraction, you should <i>rationalize the denominator</i> by multiplying the fraction by a helpful form of

	Choice	Feedback
Α.	the denominator	
В.	x	
C.	the numerator	
*D.	1	Correct!

**Global Incorrect Feedback** 

The correct answer is: 1.

Question 9c of 15 (1 Rationalizing Denominators 295576)

Maximum Attempts: 1

Question Type:	Multiple Choice
Maximum Score:	2
Question:	To get rid of radicals in the denominator of a fraction, you should <i>rationalize the denominator</i> by multiplying the fraction by a helpful form of

	Choice	Feedback
*A.	1	Correct!
В.	the denominator	
C.	the numerator	
D.	x	

Global Incorrect Feedback	Global	Incorrect Feedback
---------------------------	--------	--------------------

The correct answer is: 1.

#### Question 10a of 15 (1 Rationalizing Denominators 117988)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	To rationalize a denominator that has more than one term, you multiply $\underline{B}$

the fraction by B, where *B* is the conjugate of the numerator.

	Choice	Feedback
Α.	True	
*B.	False	Correct!

#### Global Incorrect Feedback

The correct answer is: False.

### Question 10b of 15 (1 Rationalizing Denominators 295577)

Maximum Attempts:	1	
Question Type:	True-False	
Maximum Score:	2	
Question:	To rationalize a denominator that has more than one term, you multiply the fraction by $B + B$ , where B is the conjugate of the denominator.	

	Choice	Feedback
Α.	True	
*B.	False	Correct!

Global Incorrect Feedback

#### Question 10c of 15 (1 Rationalizing Denominators 295578)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	To rationalize a denominator that has more than one term, you multiply $\underline{B}$

the fraction by B, where B is the conjugate of the denominator.

	Choice		Feedback	
*A.	True		Correct!	
В.	False			
	Γ	Global Incorred	t Feedback	

The correct answer is: True.

Question 11a of 15 (1 Rationalizing Denominators 117990)

1

Maximum Attempts:

Question Type:Multiple ChoiceMaximum Score:2Question:If a and b are any real numbers, what is the conjugate of a + b?

	Choice		Feedback
Α.	a + b		
В.	a÷b		
С.	a●b		
*D.	a - b		Correct!
	Global Incorrect Feedback		

The correct answer is: *a* - *b*.

Question 11b of 15 (1 Rationalizing Denominators 295579)

Choice		Feedback
Question:	If a and b are any real numbers, what is the <i>conjugate</i> of a - b?	
Maximum Score:	2	
Question Type:	Multiple Choice	
Maximum Attempts:	1	

*A.	a + b	Correct!
В.	a÷b	
C.	a ●b	
D.	a - b	

**Global Incorrect Feedback** 

The correct answer is: a + b.

#### Question 11c of 15 (1 Rationalizing Denominators 295580)

1

Maximum Attempts:

Question Type:	Multiple Choice
Maximum Score:	2
Question:	If <i>a</i> and <i>b</i> are any real numbers, what is the <i>conjugate</i> of <i>a</i> + <i>b</i> ?

	Choice	Feedback
Α.	a + b	
В.	a ÷b	
*C.	a - b	Correct!
D.	a●b	

**Global Incorrect Feedback** The correct answer is: *a* - *b*.

#### Question 12a of 15 (2 Rationalizing Denominators 117991)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What is the conjugate of

njugate of 5 +  $\sqrt{3}$  ?

Choice	Feedback
<sub>5 +</sub> √3	
<sub>5 -</sub> √3	Correct!
5 • √3	
5 ÷√3	
	5 + √3 5 - √3 5 • √3

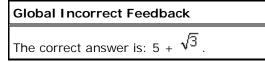
**Global Incorrect Feedback** 

#### Question 12b of 15 (2 Rationalizing Denominators 295581)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	What is the conjuga

What is the conjugate of 5 - $\sqrt{3}$ ?	
---	--

	Choice	Feedback
*A.	5 + √ <del>3</del>	Correct!
В.	<sub>5 -</sub> √3	
C.	5 <b>•</b> √3	
D.	5 ÷ √3	



#### Question 12c of 15 (2 Rationalizing Denominators 295582)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	5
	What is the conjugate of 6 + $\sqrt{2}$ ?

	Choice	Feedback
*A.	<sub>6 -</sub> √7	Correct!
В.	<sub>6 +</sub> √2	
C.	<sub>6 ∎</sub> -√2	
D.	<sub>6</sub> ÷ √2	

Global Incorrect Feedback

#### Question 13a of 15 (2 Rationalizing Denominators 117993)

Maximum Attempts: 1 Question Type: Multiple Choice Maximum Score: 2 Question: Multiplying by a conjugate gives a rational number because (a + b)(a - b)(a b) = \_

	Choice	Feedback
Α.	$a^2 + b^2$	
В.	$a^2 \bullet b^2$	
*C	$a^2 - b^2$	Correct!
D.	$a^2 \div b^2$	

#### **Global Incorrect Feedback**

The correct answer is:  $a^2 - b^2$ .

#### Question 13b of 15 (2 Rationalizing Denominators 295583)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Multiplying by a conjugate gives a rational number because $(a + b)(a - b) = \$ .

	Choice	Feedback
*A.	$a^2 - b^2$	Correct!
В.	$a^2 \bullet b^2$	
C.	$a^2 + b^2$	
D.	$a^2 \div b^2$	

**Global Incorrect Feedback** The correct answer is:  $a^2 - b^2$ .

#### Question 13c of 15 (2 Rationalizing Denominators 295584)

Maximum Attempts: 1 Question Type: Multiple Choice Maximum Score: 2

Question: Multiplying by a conjugate gives a rational number because (a + b)(a - b) =\_\_\_\_.

	Choice	Feedback
Α.	$a^2 + b^2$	
В.	$a^2 \bullet b^2$	
C.	$a^2 \div b^2$	
*D.	$a^2 - b^2$	Correct!

#### **Global Incorrect Feedback**

The correct answer is:  $a^2 - b^2$ .

#### Question 14a of 15 (1 Rationalizing Denominators 117995)

Choice		Feedback	
Question:You can use conjugates to rationalize the denominator even whe denominator contains two radical terms.			
Maximum Score:	2		
Question Type:	True-False		
Maximum Attempts:	1		

	Choice	Feedback
*A.	True	Correct!
В.	False	

# Global Incorrect Feedback

The correct answer is: True.

#### Question 14b of 15 (1 Rationalizing Denominators 295585)

Maximum Attempts: 1

Question Type:	True-False
Maximum Score:	2
Question:	You can only use conjugates to rationalize the denominator when the denominator contains one radical term.

	Choice	Feedback
Α.	True	
*B.	False	Correct!

#### Global Incorrect Feedback

The correct answer is: False.

#### Question 14c of 15 (1 Rationalizing Denominators 295586)

1

Maximum Attempts:

Question Type:	True-False
Maximum Score:	2
Question:	You can rationalize the denominator using conjugates even when the denominator contains two radical terms

	Choice	Feedback
*A.	True	Correct!
В.	False	

**Global Incorrect Feedback** 

The correct answer is: True.

#### Question 15a of 15 (3 Rationalizing Denominators 117996)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the fraction below when <i>x</i> is an appropriate value? <i>Hint: Rationalize the denominator and simplify.</i>

$$\frac{\sqrt{12}}{\sqrt{3}-3}$$

	Choice	Feedback
Α.	_√3	
В.	<sub>-1 +</sub> √3	
C.	<sub>-1 -</sub> √2	
*D.	<sub>-1 -</sub> √3	Correct!

Global Incorrect Feedback

The correct answer is: -1 -  $\sqrt{3}$  .

### $\label{eq:Question 15b of 15 (3 Rationalizing Denominators 295587)}$

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the fraction below when x is an

appropriate value? Hint: Rationalize the denominator and simplify.

-√8 -√2 - 2

	Choice		Feedback	
Α.	<u>_</u> √2			
*B.	-2 -2√2		Correct!	
C.	-2 - √3			
D.	-2 + √ <sup>2</sup>			
		Global Incorrec	ct Feedback	
		The correct answ	ver is: <b>-2-2√2</b>	

Question 15c of 15 (3 Rationalizing Denominators 295588)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the fraction below when <i>x</i> is an appropriate value? <i>Hint: Rationalize the denominator and simplify</i> .



	Choice	Feedback
Α.	_ √3	
*В.	-1 + √3	Correct!
C.	- <u>1</u> - √2	
D.	- <u>1</u> - √3	

Global Incorrect Feedback
The correct answer is: -1 + $\sqrt{3}$ .

	PREVIEW	CLOSE
Quiz: Solving Radical Equations		

# Question 1a of 15 (3 Soving Radical Equations 92165)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	16
Question:	Solve the equation for x. Do not include " $x =$ " in your answer.

Attemp	Incorrect Feedback
1st	
	Correct Feedback
	Correct!
	Global Incorrect Feedback
	The correct answer is: 16.

# Question 1b of 15 (3 Soving Radical Equations 295742)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	9
Question:	Solve the equation for <i>x</i> . Do not include " $x =$ " in your answer.

# √x+9=12

Attempt		Incorrect Feedback	
1st			
	С	orrect Feedback	
Correct!			
Global Incorrect Feedback			
The correct answer is: 9.			

Question 1c of 15 ( 3 Soving Radical Equations 295743 )

1
Numeric Fill In Blank
2
4
Solve the equation for x. Do not include " $x =$ " in your answer.

√x+0=11

Attempt		Incorrect Feedback
1st		
	С	orrect Feedback
	С	prrect!
	Global Incorrect Feedback	
	Tł	ne correct answer is: 4.

# Question 2a of 15 ( 3 Soving Radical Equations 92166 )

I In Blank
quation for $x$ . Do not include " $x =$ " in your answer.

$$\sqrt{x} - 4 = -2$$

Attempt		Incorrect Feedback
1st		
	С	orrect Feedback
Correct!		orrect!
	Global Incorrect Feedback	
The correct answer is: 4.		

#### Question 2b of 15 (3 Soving Radical Equations 295744)

1
Numeric Fill In Blank
2
9
Solve the equation for x. Do not include " $x =$ " in your answer.

√x-9--6

Attemp	ot Incorrect Feedback
1st	
	Correct Feedback
	Correct!
	Global Incorrect Feedback
	The correct answer is: 9.

# Question 2c of 15 ( 3 Soving Radical Equations 295745 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	25
Question:	Solve the equation for x. Do not include " $x =$ " in your answer.

# √x-10=-5

Attemp	ttempt Incorrect Feedback	
1st		
	Correct Feedback	
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: 25.	

# Question 3a of 15 (3 Soving Radical Equations 92167)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	6
Question:	Solve the equation for <i>x</i> . Do not include " $x =$ " in your answer.

$$3 + \sqrt{2x + 4} = 7$$

Attempt	Incorrect Feedback
1st	

Correct Feedback
Correct!
Global Incorrect Feedback

### Question 3b of 15 (3 Soving Radical Equations 295746)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	4
Question:	Solve the equation for x. Do not include " $x =$ " in your answer.

2++<del>(</del>]x+4-6

Attempt	Incorrect Feedback	
1st		
C	Correct Feedback	
Correct!		
C	Global Incorrect Feedback	
The correct answer is: 4.		

#### Question 3c of 15 ( 3 Soving Radical Equations 295747 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2
Question:	Solve the equation for x. Do not include " $x =$ " in your answer.

l++6x+4=8

Attemp	ot	Incorrect Feedback
1st		
	С	orrect Feedback
	С	orrect!
	Global Incorrect Feedback	

The correct answer is: 2.

# Question 4a of 15 (3 Soving Radical Equations 92168)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	22
Question:	Solve the equation for x. Do not include " $x =$ " in your answer.

 $-2 + \sqrt{3x - 2} = 6$ 

Attemp	Attempt Incorrect Feedback	
1st		
	С	orrect Feedback
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: 22.	

#### Question 4b of 15 (3 Soving Radical Equations 295748)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	24
Question:	Solve the equation for x. Do not include " $x =$ " in your answer.

Attempt	Attempt Incorrect Feedback	
1st		
0	Correct Feedback	
(	Correct!	
0	Global Incorrect Feedback	
Г	The correct answer is: 24.	

Question 4c of 15 ( 3 Soving Radical Equations 295749 )Maximum Attempts:1

Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	25
Question:	Solve the equation for <i>x</i> . Do not include " $x =$ " in your answer.

# -3+ <mark>-</mark>3x-11-5

Attempt Incorrect Feedback	
1st	
(	Correct Feedback
Correct!	
Global Incorrect Feedback	
-	he correct answer is: 25.

# Question 5a of 15 (3 Soving Radical Equations 92169)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	9
Question:	Solve the equation for x. Do not include " $x =$ " in your answer.

$$\frac{\sqrt{2x}}{\sqrt{x-7}} = 3$$

Attemp	Attempt Incorrect Feedback	
1st		
	С	orrect Feedback
Correct!		
	Global Incorrect Feedback	
	Tł	ne correct answer is: 9.

# Question 5b of 15 (3 Soving Radical Equations 295750)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	4
Question:	Solve the equation for x. Do not include " $x =$ " in your answer.

	$\frac{\sqrt{2x}}{\sqrt{x-2}} \cdot 2$	
Attempt	Incorrect Feedback	
1st		
C	orrect Feedback	
Correct!		
Global Incorrect Feedback		
Т	he correct answer is: 4.	

### Question 5c of 15 ( 3 Soving Radical Equations 295751 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	9
Question:	Solve the equation for x. Do not include " $x =$ " in your answer.

$$\frac{\sqrt{3x}}{\sqrt{x-6}} = 3$$

Attemp	pt Incorrect Feedback	
1st		
	С	orrect Feedback
	Correct!	
	Global Incorrect Feedback	
	Tł	ne correct answer is: 9.

#### Question 6a of 15 (3 Soving Radical Equations 92170)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	8
Question:	Solve the equation for <i>x</i> . Do not include " $x =$ " in your answer.

$$\frac{\sqrt{3x}}{\sqrt{x-2}} = 2$$

Attempt Incorrect Feedback

1st	
	Correct Feedback
	Correct!
	Global Incorrect Feedback
	The correct answer is: 8.

### Question 6b of 15 ( 3 Soving Radical Equations 295752 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	8
Question:	Solve the equation for x. Do not include " $x =$ " in your answer.

$$\frac{\sqrt{3x}}{\sqrt{x-2}} = 2$$

Attempt Incorrect Feedback		
1st		
	Correct Feedback	
Correct!		
Global Incorrect Feedback		
	The correct answer is: 8.	

# Question 6c of 15 ( 3 Soving Radical Equations 295753 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	8
Question:	Solve the equation for x. Do not include " $x =$ " in your answer.

$$\frac{\sqrt{3x}}{\sqrt{x-2}} = 2$$

Attempt	Incorrect Feedback	
1st		
Correct Feedback		

Correct!
Global Incorrect Feedback
The correct answer is: 8.

# Question 7a of 15 (3 Soving Radical Equations 92171)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	6
Question:	Solve the equation for x. Do not include " $x =$ " in your answer.

$$\sqrt{x+3} = x-3$$

Attempt Incorrect Feedback		Incorrect Feedback
1st		
	С	orrect Feedback
	С	orrect!
	Global Incorrect Feedback	
	The correct answer is: 6.	

# Question 7b of 15 ( 3 Soving Radical Equations 295754 )

ill In Blank
equation for x. Do not include " $x =$ " in your answer.

**√**¥+6=x-6

Attempt	Incorrect Feedback	
1st		
	Correct Feedback	
Correct!		
(	Global Incorrect Feedback	
	The correct answer is: 10.	

#### Question 7c of 15 (3 Soving Radical Equations 295755)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	7
Question:	Solve the equation for x. Do not include " $x =$ " in your answer.

**√x**+2=x-4

Attemp	ot	Incorrect Feedback
1st		
	С	orrect Feedback
	С	prrect!
	Global Incorrect Feedback	
	Τŀ	ne correct answer is: 7.

### Question 8a of 15 (3 Soving Radical Equations 92172)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	13
Question:	Solve the equation for x. Do not include " $x =$ " in your answer.

$$\sqrt{x-4} = x - 10$$

Attempt		Incorrect Feedback
1st		
	С	orrect Feedback
	С	prrect!
	Global Incorrect Feedback	
	The correct answer is: 13.	

#### Question 8b of 15 (3 Soving Radical Equations 295756)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2

Correct Answer:14Question:Solve the equation for x. Do not include "x =" in your answer.

<u>α-5</u>=x-11

Attemp	ot	Incorrect Feedback	
1st			
	Correct Feedback		
	Correct!		
	Global Incorrect Feedback		
	Tł	ne correct answer is: 14.	

# Question 8c of 15 ( 3 Soving Radical Equations 295757 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	15
Question:	Solve the equation for x. Do not include " $x =$ " in your answer.

16 N. A 17	<b>4</b> 1-6	=#-12
------------	--------------	-------

Attemp	ot	Incorrect Feedback	
1st			
	Correct Feedback		
	Correct!		
Global Incorrect Feedback			
	The correct answer is: 15.		

### Question 9a of 15 (1 Soving Radical Equations 211105)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	You can use the "isolate the radical, then square both sides" method to simplify the equation below.

$$\frac{\sqrt{x+3}}{\sqrt{x-1}} = 3$$

*A. True Correct!	
B. False	

Global Incorrect Feedback

The correct answer is: True.

# Question 9b of 15 (1 Soving Radical Equations 295758)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	The equation below is too complicated to use the "isolate the radical, then square both sides" method to simplify.

$$\frac{\sqrt{x+3}}{\sqrt{x-1}} = 3$$

	Choice	Feedback
Α.	True	
*B.	False	Correct!

#### Global Incorrect Feedback

The correct answer is: False.

#### Question 9c of 15 (1 Soving Radical Equations 295759)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	You can use the "square both sides, then isolate the radical" method to simplify the equation below.

$$\frac{\sqrt{x+3}}{\sqrt{x-1}} = 3$$

	hoice	Feedback
A. Tr	rue	
*B. Fa	alse	Correct!

Global Incorrect Feedback
The correct answer is: False.

### Question 10a of 15 (1 Soving Radical Equations 119396)

Maximum Attempts:

Question Type:Multiple ChoiceMaximum Score:2Question:In general, when solving a<br/>and then square bot

1

In general, when solving a radical equation, you should first isolate the \_\_\_\_\_ and then square both sides.

	Choice	Feedback
Α.	variable	
В.	coefficient	
*C.	radical	Correct!
D.	operator	

Global Incorrect Feedback

The correct answer is: radical.

#### Question 10b of 15 (1 Soving Radical Equations 295760)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	In general, when solving a radical equation, you should first the radical and then square both sides.

	Choice	Feedback
*A.	isolate	Correct!
В.	move	
C.	change	
D.	square	
	Global Incorre	ct Feedback

The correct answer is: isolate.

### Question 10c of 15 (1 Soving Radical Equations 295761)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	In general, when solving a radical equation, you should first isolate the radical and then both sides.

Choice Feedback

Α.	multiply		
В.	subtract		
C.	add		
*D.	square		Correct!
	T	Clobal Incorra	

Global Incorrect Feedback

The correct answer is: square.

## Question 11a of 15 ( 3 Soving Radical Equations 119401 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	36
Question:	Solve the equation for x. Do not include " $x =$ " in your answer.

 $3 + \sqrt{X} = 9$ 

Attempt Incorrect Feedback		
1st		
Correct Feedback		
	С	prrect!
	Global Incorrect Feedback	
	The correct answer is: 36.	

### Question 11b of 15 ( 3 Soving Radical Equations 295762 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	25
Question:	Solve the equation for <i>x</i> . Do not include " $x =$ " in your answer.

3	+	$\sqrt{X}$	=	8
-				-

Attemp	Incorrect Feedbac	x
1st		
Correct Feedback		
	Correct!	

Global Incorrect Feedback
The correct answer is: 25.

# Question 11c of 15 ( 3 Soving Radical Equations 295763 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	49
Question:	Solve the equation for x. Do not include " $x =$ " in your answer.

$$3 + \sqrt{X} = 10$$

Attemp	Incorrect Feedback	
1st		
Correct Feedback		
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: 49.	

### Question 12a of 15 (3 Soving Radical Equations 119413)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	32
Question:	Solve the equation for x. Do not include " $x =$ " in your answer.

Attempt		Incorrect Feedback
1st		
Correct Feedback		
Correct!		orrect!
	Global Incorrect Feedback	
	Tł	ne correct answer is: 32.

Question 12b of 15 ( 3 Soving Radical Equations 295764 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	18
Question:	Solve the equation for x. Do not include " $x =$ " in your answer.

$$\sqrt{2x}$$
 - 19 = -13

Attempt		Incorrect Feedback
1st		
Correct Feedback		
С		prrect!
	Global Incorrect Feedback	
	Tł	ne correct answer is: 18.

### Question 12c of 15 ( 3 Soving Radical Equations 295765 )

1
Numeric Fill In Blank
2
50
Solve the equation for x. Do not include " $x =$ " in your answer.

 $\sqrt{2x}$  - 15 = -5

Attempt Incorrect Feedback		
1st		
Correct Feedback		
Correct!		
	Global Incorrect Feedback	
	The correct answer is: 50.	

### Question 13a of 15 ( 3 Soving Radical Equations 119419 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	11
Question:	Solve the equation for x. Do not include " $x =$ " in your answer.

$\sqrt{x+5}$	_ ·	1 =	3
--------------	-----	-----	---

Attemp	Incorrect Feedback
1st	
	Correct Feedback
	Correct!
Global Incorrect Feedback	
	The correct answer is: 11.

### Question 13b of 15 ( 3 Soving Radical Equations 295766 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	20
Question:	Solve the equation for x. Do not include " $x =$ " in your answer.

$$\sqrt{x+5} - 1 = 4$$

Attemp	Incorrect Feedback		
1st			
	Correct Feedback		
	Correct!		
	Global Incorrect Feedback		
	The correct answer is: 20.		

### Question 13c of 15 ( 3 Soving Radical Equations 295767 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	4
Question:	Solve the equation for x. Do not include " $x =$ " in your answer.
Correct Answer:	<ul> <li>2</li> <li>4</li> <li>Solve the equation for <i>x</i>. Do not include "<i>x</i> =" in your answer.</li> </ul>

$$\sqrt{x+5} - 1 = 2$$

Attempt	Incorrect Feedback
1st	
C	Correct Feedback

Correct!
Global Incorrect Feedback
The correct answer is: 4.

### Question 14a of 15 (3 Soving Radical Equations 119421)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	-5
Question:	Solve the equation for x. Do not include " $x =$ " in your answer.
	$11 \pm \sqrt{1-3x} = 15$

		$ 1  + \sqrt{1 - 2} = 15$
Attemp	ot	Incorrect Feedback
1st		
	Correct Feedback	
	Correct!	
	Global Incorrect Feedback	
The correct answer is: -5.		

### Question 14b of 15 ( 3 Soving Radical Equations 295769 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	-7
Question:	Solve the equation for x. Do not include " $x =$ " in your answer.

### 12 + <del>√1 - 5×</del> =18

Attempt Incorrect Feedback		
1st		
Correct Feedback		
Correct!		orrect!
	Global Incorrect Feedback	
	Tł	ne correct answer is: -7.

#### Question 14c of 15 ( 3 Soving Radical Equations 295770 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	-2
Question:	Solve the equation for x. Do not include " $x =$ " in your answer.

Attem	empt Incorrect Feedback	
1st	st	
	Correct Feedback	
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: -2.	

#### Question 15a of 15 (1 Soving Radical Equations 119426)

Maximum Attempts:1Question Type:True-FalseMaximum Score:2Question:You should kee

You should keep in mind that when you square both sides of an equation and get an  $x^2$ -term, you may get extraneous variables.

	Choice	Feedback
Α.	True	
*B.	False	Correct!

Global Incorrect Feedback

The correct answer is: False.

#### Question 15b of 15 (1 Soving Radical Equations 295771)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	You should keep in mind that when you square both sides of an equation and get an $x^2$ -term, you may get extraneous variables.

	Choice	Feedback
Α.	True	

\*B. False

Correct!

**Global Incorrect Feedback** 

The correct answer is: False.

### Question 15c of 15 (1 Soving Radical Equations 295772)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	You should keep in mind that when you square both sides of an equation and get an $x^2$ -term, you may get extraneous variables.

	Choice		Feedback
Α.	True		
*B.	False		Correct!
		Global Incorrec	ct Feedback

The correct answer is: False.

	PREVIEW	CLOSE
Quiz: Fractional Exponents - Part 1		

### Question 1a of 15 (2 Rational Exponents 119836)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	1/2
Question:	What rational exponent represents a square root? Enter the fraction below using a slash ( / ) for the fraction bar.

Attempt	Incorrect Feedback	
1st		
Correct Feedback		
Correct!		
Global Incorrect Feedback		
The correct answer is: 1/2.		

### Question 1b of 15 ( 2 Rational Exponents 295825 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	1/3
Question:	What rational exponent represents a cube root? Enter the fraction below using a slash ( / ) for the fraction bar.

Attemp	t I	ncorrect Feedback
1st		
	Cor	rect Feedback
	Cori	rect!
	Global Incorrect Feedback	
	The	correct answer is: 1/3.

Question 1c of 15 (2 Rational Exponents 295827)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	1/2
Question:	What rational exponent represents a square root? Enter the fraction below using a slash ( / ) for the fraction bar.

Attempt	Incorrect Feedback	
1st		
0	orrect Feedback	
(	correct!	
0	Global Incorrect Feedback	
Т	he correct answer is: 1/2.	

### Question 2a of 15 (2 Rational Exponents 119837)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	2/3
Question:	What rational exponent represents a cube root squared? Enter the fraction below using a slash ( / ) for the fraction bar.

Attemp	pt Incorrect Feedback	
1st		
	Correct Feedback	
	С	prrect!
	Global Incorrect Feedback	
	The correct answer is: 2/3.	

### Question 2b of 15 ( 2 Rational Exponents 295828 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	3/2
Question:	What rational exponent represents a square root cubed? Enter the

fraction below using a slash ( / ) for	r the fraction bar.
correct Feedback	

	Attempt	Incorrect Feedback	
1st			
	Correct Feedback		
	C	Correct!	
	G	Global Incorrect Feedback	
	Т	he correct answer is: 3/2.	

### Question 2c of 15 (2 Rational Exponents 295829)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	4/3
Question:	What rational exponent represents a cube root taken to the fourth power? Enter the fraction below using a slash ( / ) for the fraction bar.

Attempt	Incorrect Feedback
1st	
С	orrect Feedback
С	orrect!
G	lobal Incorrect Feedback
Т	ne correct answer is: 4/3.

### Question 3a of 15 (3 Rational Exponents 119838)

1
Numeric Fill In Blank
2
2
Simplify the expression and enter your answer below.

8<sup>1/3</sup>

Attemp	t Incorrect Feedback	
1st		
	Correct Feedback	
	Correct!	

Global Incorrect Feedback
The correct answer is: 2.

### Question 3b of 15 (3 Rational Exponents 295830)

Maximum Attempts:1Question Type:Numeric Fill In BlankMaximum Score:2Correct Answer:3Question:Simplify the expression and enter your answer below.27<sup>1/3</sup>

Attemp	Incorrect Feedback		
1st			
Correct Feedback			
	Correct!		
	Global Incorrect Feedback		
	The correct answer is: 3.		

### Question 3c of 15 (3 Rational Exponents 295832)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	4
Question:	Simplify the expression and enter your answer below.

64<sup>1/3</sup>

Attempt		Incorrect Feedback	
1st			
Correct Feedback			
С		prrect!	
	Global Incorrect Feedback		
	Tł	ne correct answer is: 4.	

Question 4a of 15 ( 3 Rational Exponents 119839 )Maximum Attempts:

Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	4
Question:	Simplify the expression and enter your answer below.

256<sup>1/4</sup>

Attempt	Incorrect Feedback	
1st		
Correct Feedback		
Correct!		
0	ilobal Incorrect Feedback	
Т	The correct answer is: 4.	

# Question 4b of 15 (3 Rational Exponents 295833)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	3
Question:	Simplify the expression and enter your answer below.

81	1	/4
----	---	----

Attemp	t Inc	correct Feedback
1st		
Correct Feedback		
	Corre	ct!
	Globa	al Incorrect Feedback
	The correct answer is: 3.	

### Question 4c of 15 (3 Rational Exponents 295834)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	5
Question:	Simplify the expression and enter your answer below.
	625 <sup>1/4</sup>

Attempt	Incorrect Feedback	
1st		
Correct Feedback		
0	Correct!	
Global Incorrect Feedback		
The correct answer is: 5.		

# Question 5a of 15 (2 Rational Exponents 119840)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are real numbers? Check all that apply.

#### **Correct Answers:**

	Choice
*A.	(-1024) <sup>1/5</sup>
В.	(-531441) <sup>1/12</sup>
*C.	(-131072) <sup>1/17</sup>
D.	(-256) <sup>1/8</sup>

Attempt		Incorrect Feedback	
1st	1st		
Correct Feedback			
Correct!		orrect!	
	Global Incorrect Feedback		
	The correct answers are: $(-1024)^{1/5}$ and $(-131072)^{1/17}$ .		

### Question 5b of 15 ( 2 Rational Exponents 295835 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are real numbers? Check all that apply.

Correct Answers:

	Choice		
Α.	(-1024) <sup>1/4</sup>		
*B.	(-531441) <sup>1/13</sup>		
C.	(-131072) <sup>1/16</sup>		
*D.	(-256) <sup>1/9</sup>		
Attempt Incorrect Feedback			
1st			
	Correct Feedback		
	Correct!		
	Global Incorrect Feedback		
	The correct answers are: $(-531441)^{1/13}$ and $(-256)^{1/9}$ .		

## Question 5c of 15 ( 2 Rational Exponents 295836 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are real numbers? Check all that apply.

#### Correct Answers:

	Choice
* <b>A</b> .	(-5776) <sup>1/7</sup>
В.	(-531441) <sup>1/12</sup>
C.	(-131072) <sup>1/16</sup>
*D.	(-256) <sup>1/11</sup>

Attempt Incorrect Feedback			
1st	1st		
	Correct Feedback		
Correct!			
	Global Incorrect Feedback		
	The correct answers are: (-5776) <sup>1/7</sup> and (-256) <sup>1/11</sup> .		

#### Question 6a of 15 (2 Rational Exponents 119841)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are real numbers? Check all that apply.

**Correct Answers:** 

	Cho	ice	
*A.	(-14	(-14348907) <sup>1/15</sup>	
В.	(-59	049) <sup>1/10</sup>	
C.	(-16	384) <sup>1/14</sup>	
*D.	(-21	6) <sup>1/3</sup>	
Atte	mpt	Incorrect Feedback	
1st			
	Correct Feedback		
	Correct!		
	Global Incorrect Feedback		
	The correct answers are: $(-14348907)^{1/15}$ and $(-216)^{1/3}$ .		

### Question 6b of 15 ( 2 Rational Exponents 295838 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are real numbers? Check all that apply.

Correct Answers:

	Cho	ice	
Α.	(-17896) <sup>1/14</sup>		
*B.	(-68467) <sup>1/11</sup>		
*C.	(-76	437465) <sup>1/13</sup>	
D.	(-523) <sup>1/4</sup>		
Atte	mpt	Incorrect Feedback	
1st			
	Correct Feedback		

Correct!
Global Incorrect Feedback
The correct answers are: (-68467) <sup>1/11</sup> and (- 76437465) <sup>1/13</sup> .

## Question 6c of 15 (2 Rational Exponents 295839)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are real numbers? Check all that apply.

#### **Correct Answers:**

	Choice		
Α.	(-789856) <sup>1/12</sup>		
В.	(-9) <sup>1/10</sup>		
*C.	(-46543) <sup>1/13</sup>		
*D.	(-23) <sup>1/3</sup>		
Atte	mpt Incorrect Feedback		
1st			
	Correct Feedback		
	Correct!		
Global Incorrect Feedback			
	The correct answers are: $(-46543)^{1/13}$ and $(-23)^{1/3}$ .		

### Question 7a of 15 (3 Rational Exponents 119842)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	5
Question:	Simplify the expression and enter your answer below.

 $(5^{1/2})^2$ 

Attempt	Incorrect Feedback
1st	

Correct Feedback
Correct!
Global Incorrect Feedback

### Question 7b of 15 (3 Rational Exponents 295841)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	6
Question:	Simplify the expression and enter your answer below.
	$(6^{1/2})^2$

### Question 7c of 15 (3 Rational Exponents 295842)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	7
Question:	Simplify the expression and enter your answer below.

(7<sup>1/2</sup>)<sup>2</sup>

Attempt Incorrect Feedback		
1st		
Correct Feedback		
Correct!		
Global Incorrect Feedback		
-	The correct answer is: 7.	

#### Question 8a of 15 (3 Rational Exponents 119843)

Maximum Attempts:1Question Type:Numeric Fill In BlankMaximum Score:2Correct Answer:6Question:Simplify the expression and enter your answer below.

 $(6^{1/4}) \bullet (6^{1/4}) \bullet (6^{1/4}) \bullet (6^{1/4})$ 

Attempt Incorrect Feedback		Incorrect Feedback
1st		
Correct Feedback		
Correct!		
	Global Incorrect Feedback	
	The correct answer is: 6.	

#### Question 8b of 15 (3 Rational Exponents 295844)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	8
Question:	Simplify the expression and enter your answer below.

 $(8^{1/4}) \bullet (8^{1/4}) \bullet (8^{1/4}) \bullet (8^{1/4})$ 

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	С	prrect!
	Global Incorrect Feedback	
	The correct answer is: 8.	

### Question 8c of 15 (3 Rational Exponents 295845)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	10

Question:

Simplify the expression and enter your answer below.

 $(10^{1/4}) \bullet (10^{1/4}) \bullet (10^{1/4}) \bullet (10^{1/4})$ 

Attemp	t Incorrect Feedback	
1st		
	Correct Feedback	
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: 10.	

#### Question 9a of 15 (2 Rational Exponents 119892)

1
Multiple Response
2
Which choices are real numbers? Check all that apply.

Correct Answers:

	Choice
Α.	(-4) <sup>1/2</sup>
*B.	(-8) <sup>1/3</sup>
C.	(-16) <sup>1/4</sup>
*D.	(-32) <sup>1/5</sup>

Attemp	ot	Incorrect Feedback	
1st			
Correct Feedback			
	С	prrect!	
	Global Incorrect Feedback		
The correct answers are: $(-8)^{1/3}$ and $(-32)^{1/5}$ .			

### Question 9b of 15 ( 2 Rational Exponents 295846 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are real numbers? Check all that apply.

#### **Correct Answers:**

	Choice		
* <b>A</b> .	(-4) <sup>1/3</sup>		
В.	(-10) <sup>1/4</sup>		
*C.	(-16) <sup>1/5</sup>		
D.	(-32) <sup>1/6</sup>		
Attempt		Incorrect Feedback	
1st			

150	
	Correct Feedback
	Correct!
	Global Incorrect Feedback
	The correct answers are: $(-4)^{1/3}$ and $(-16)^{1/5}$ .

### Question 9c of 15 (2 Rational Exponents 295847)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are real numbers? Check all that apply.

#### Correct Answers:

	Cho	ice		
*A.	(-6) <sup>1/5</sup>			
В.	(-10	(-10) <sup>1/4</sup>		
*C.	(-16) <sup>1/3</sup>			
D.	(-22) <sup>1/2</sup>			
Attempt Incorrect Feedback				
1st				
	Correct Feedback			
	Correct!			
	Global Incorrect Feedback			
	The correct answers are: $(-6)^{1/5}$ and $(-16)^{1/3}$ .			

Question 10a of 15 ( 3 Rational Exponents 119896 )

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	3
Question:	Simplify the expression and enter your answer below.
Question:	Simplify the expression and enter your answer below.

(3<sup>1/4</sup>)<sup>4</sup>

Attempt	Incorrect Feedback		
1st			
Correct Feedback			
С	orrect!		
G	Global Incorrect Feedback		
Т	he correct answer is: 3.		

## Question 10b of 15 (3 Rational Exponents 295848)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	8
Question:	Simplify the expression and enter your answer below.

(8<sup>1/4</sup>)<sup>4</sup>

Attem	pt	Incorrect Feedback
1st		
Correct Feedback		
	С	orrect!
	G	lobal Incorrect Feedback
	Tł	he correct answer is: 8.

### Question 10c of 15 (3 Rational Exponents 295849)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	9
Question:	Simplify the expression and enter your answer below.
	(9 <sup>1/4</sup> ) <sup>4</sup>

Attempt	Incorrect Feedback
1st	
C	orrect Feedback
C	orrect!
G	ilobal Incorrect Feedback
Т	he correct answer is: 9.

### Question 11a of 15 (3 Rational Exponents 119897)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	2
Question:	Simplify the expression and enter your answer below.
	( • 2) 1/4

 (4<sup>2</sup>)<sup>1/4</sup>

 Attempt
 Incorrect Feedback

 1st
 Correct Feedback

 Correct!
 Global Incorrect Feedback

 The correct answer is: 2.

### Question 11b of 15 (3 Rational Exponents 295851)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	3
Question:	Simplify the expression and enter your answer below.

(9<sup>2</sup>)<sup>1/4</sup>

Attemp	ot	Incorrect Feedback
1st		
	Correct Feedback	
Correct!		prrect!

Global Incorrect Feedback	
	The correct answer is: 3.

#### Question 11c of 15 (3 Rational Exponents 295852)

1

2

Maximum Attempts:

Numeric Fill In Blank

Maximum Score:

Question Type:

Question:

Correct Answer: 4

Simplify the expression and enter your answer below.

 $(16^2)^{1/4}$ 

Attempt		Incorrect Feedback
1st		
Correct Feedback		
С		orrect!
	Global Incorrect Feedback	
	Tł	ne correct answer is: 4.

#### Question 12a of 15 (3 Rational Exponents 119899)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	7
Question:	Simplify the expression and enter your answer below.

(49<sup>3</sup>)<sup>1/6</sup>

Attemp	t Incorrect Feedback
1st	
Correct Feedback	
	Correct!
	Global Incorrect Feedback
	The correct answer is: 7.

Question 12b of 15 ( 3 Rational Exponents 295854 )Maximum Attempts:

Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	8
Question:	Simplify the expression and enter your answer below.

(64<sup>3</sup>)<sup>1/6</sup>

Attempt	Incorrect Feedback
1st	
Correct Feedback	
(	Correct!
C	Global Incorrect Feedback
Т	he correct answer is: 8.

# Question 12c of 15 (3 Rational Exponents 295855)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	9
Question:	Simplify the expression and enter your answer below.

(81 <sup>3</sup> ) <sup>1/6</sup>
-----------------------------------

Attemp	npt Incorrect Feedback	
1st		
	Cc	orrect Feedback
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: 9.	

### Question 13a of 15 (1 Rational Exponents 119902)

Maximum	Attempts:	1
Question Type:		Numeric Fill In Blank
Maximum	Score:	2
Correct Answer:		2
Question:		What is the index of a square root?
Attempt	Incorrect Feedback	
1st		

	Correct Feedback	
	Correct!	
1	Global Incorrect Feedback	
	Global Incorrect Feedback	

### Question 13b of 15 (1 Rational Exponents 295857)

Maximum Attempts: 1		1
Question Type:		Numeric Fill In Blank
Maximum Score:		2
Correct Answer:		3
Question:		What is the index of a cube root?
Attempt	Attempt Incorrect Feedback	
1st		
C	orrect Feedback	ς
Correct!		
Global Incorrect Feedback		
TI	ne correct answei	r is: 3.

#### Question 13c of 15 (1 Rational Exponents 295859)

Maximum Attempts:		1
Question Type:		Numeric Fill In Blank
Maximum	Score:	2
Correct Answer:		2
Question:		What is the index of a square root
Attempt Incorrect Feedback		
1st		
Correct Feedback		
Correct!		
G	lobal Incorrect	Feedback
The correct answer is: 2.		

Question 14a of 15 (1 Rational Exponents 119903)Maximum Attempts:

Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	negative
Question:	Any radical expression with a radicand and an even index is <i>not</i> a real number.

Attempt	Attempt Incorrect Feedback	
1st		
0	Correct Feedback	
Correct!		
Global Incorrect Feedback		
The correct answer is: negative.		

# Question 14b of 15 (1 Rational Exponents 295860)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	odd
Question:	Any radical expression with a negative radicand and a(n) index is a real number.

Attempt	t Incorrect Feedback	
1st	st	
Correct Feedback		
Correct!		
Global Incorrect Feedback		
Т	The correct answer is: odd.	

## Question 14c of 15 (1 Rational Exponents 295862)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	even
Question:	Any radical expression with a negative radicand and a(n) index is <i>not</i> a real number.

Attempt Incorrect Feedback		
1st		
С	orrect Feedback	
С	orrect!	
Global Incorrect Feedback		
T	he correct answer is: even.	

## Question 15a of 15 (1 Rational Exponents 119909)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	1/n
Question:	To convert an <i>n</i> <sup>th</sup> -root notation to one that uses fractional exponents, you change the index <i>n</i> to the exponent Enter your answer below.

Attempt	Incorrect Feedback
1st	
С	orrect Feedback
С	orrect!
Global Incorrect Feedback	
TI	ne correct answer is: 1/n.

### Question 15b of 15 (1 Rational Exponents 295863)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	1/n
Question:	To convert an $n^{\text{th}}$ -root notation to one that uses fractional exponents, you change the index $n$ to the exponent Enter your answer below.

Attempt	Incorrect Feedback
1st	
Correct Feedback	

Correct!
Global Incorrect Feedback
The correct answer is: 1/n.

### Question 15c of 15 (1 Rational Exponents 295864)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	1/n
Question:	To convert an <i>n</i> <sup>th</sup> -root notation to one that uses fractional exponents, you change the index <i>n</i> to the exponent Enter your answer below.

Attempt Incorrect Feedback		
1st		
(	Correct Feedback	
(	Correct!	
(	Global Incorrect Feedback	
The correct answer is: 1/n.		

	PREVIEW	CLOSE
Quiz: Multiplying and Dividing Complex Numbers		

### Question 1a of 15 (3 Complex Numbers 92047)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	39 + 78i, 78i + 39
Question:	Find the product of the complex numbers and enter it below.

(9 + 6i)(7 + 4i)

Attemp	t Incorrect Feedback
1st	
	Correct Feedback
	Correct!
	Global Incorrect Feedback
	The correct answer is: 39 + 78 <i>i</i> .

### Question 1b of 15 ( 3 Complex Numbers 294743 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	33 + 54i, 54i + 33
Question:	Find the product of the complex numbers and enter it below.

(8 +	5 <i>i</i> )(6 +	3i)
------	------------------	-----

Attemp	ot Incorrect Feedback
1st	
	Correct Feedback
Correct!	
Global Incorrect Feedback	
	The correct answer is: 33 + 54 <i>i</i> .

#### Question 1c of 15 ( 3 Complex Numbers 294744 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	33 + 69i, 69i + 33
Question:	Find the product of the complex numbers and enter it below.

(9 + 7i)(6 + 3i)

Attemp	ot	Incorrect Feedback
1st		
	С	orrect Feedback
Correct!		
Global Incorrect Feedback		
	Tł	ne correct answer is: 33 + 69 <i>i</i> .

#### Question 2a of 15 (3 Complex Numbers 92048)

tt Fill In Blank
e
+16i, 38 + 16i, 16i+38, 16i + 38
d the product of the complex numbers and enter it below.

(6 + 7i)(4 - 2i)

Attemp	ot	Incorrect Feedback
1st		
	С	orrect Feedback
Correct!		
Global Incorrect Feedback		
	Tł	ne correct answer is: 38 + 16 <i>i</i> .

#### Question 2b of 15 (3 Complex Numbers 294745)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2

Is Case Sensitive:	false
Correct Answer:	33+3i, 33 + 3i, 3i+33, 3i + 33
Question:	Find the product of the complex numbers and enter it below.

(5 + 6i)(3 - 3i)

Attemp	ot	Incorrect Feedback
1st		
	Co	orrect Feedback
Correct!		
Global Incorrect Feedback		
	Th	ne correct answer is: 33 + 3 <i>i</i> .

### Question 2c of 15 ( 3 Complex Numbers 294746 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	34+12i, 34 + 12i, 12i + 34
Question:	Find the product of the complex numbers and enter it below.

(6 +	8i)(3	- 2i)
------	-------	-------

Attempt	Incorrect Feedback
1st	
0	Correct Feedback
Correct!	
Global Incorrect Feedback	
	he correct answer is: 34 + 12 <i>i</i> .

### Question 3a of 15 ( 3 Complex Numbers 92049 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	3 + 24i, 24i + 3
Question:	Find the product of the complex numbers and enter it below.
	(6 + 3i)(2 + 3i)

Attempt Incorrect Feedback	
1st	
	Correct Feedback
	Correct!
Global Incorrect Feedback	
	The correct answer is: 3 + 24 <i>i</i> .

### Question 3b of 15 ( 3 Complex Numbers 294747 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	10 + 24i, 24i + 10
Question:	Find the product of the complex numbers and enter it below.

(6 + 4i)(3 + 2i)

Attempt Incorrect Feedback		
1st		
Correct Feedback		
Correct!		
Global Incorrect Feedback		
	The correct answer is: 10 + 24 <i>i</i> .	

### Question 3c of 15 ( 3 Complex Numbers 294748 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	2 + 24i, 24i + 2
Question:	Find the product of the complex numbers and enter it below.

(5 + 2i)(2 + 4i)

Attempt	Incorrect Feedback
1st	
Correct Feedback	

Correct!
Global Incorrect Feedback
The correct answer is: 2 + 24 <i>i</i> .

### Question 4a of 15 ( 3 Complex Numbers 92050 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	-87 + 33i, 33i - 87, 33i + -87
Question:	Find the product of the complex numbers and enter it below.

(7 + 5*i*)(-6 + 9*i*)

Attempt Incorrect Feedback	
1st	
(	Correct Feedback
Correct!	
Global Incorrect Feedback	
-	he correct answer is: -87 + 33 <i>i</i> .

### Question 4b of 15 ( 3 Complex Numbers 294749 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	-82 + 26i, 26i - 82, 26i + -82
Question:	Find the product of the complex numbers and enter it below.

(8 + 6i)(-5 + 7i)

Attempt Incorrect Feedback		
1st	st	
0	Correct Feedback	
Correct!		
Global Incorrect Feedback		
Т	he correct answer is: -82 + 26 <i>i</i> .	

#### Question 4c of 15 ( 3 Complex Numbers 294750 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	-101 + 37i, 37i - 101, 37i + -101
Question:	Find the product of the complex numbers and enter it below.

(8 + 5*i*)(-7 + 9*i*)

Attemp	Incorrect Feedback		
1st			
Correct Feedback			
Correct!			
	Global Incorrect Feedback		
	The correct answer is: -101 + 37 <i>i</i> .		

#### Question 5a of 15 (3 Complex Numbers 92051)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	(18 + 2i)/41, 18/41 + 2i/41, (2i + 18)/41, 2i/41 + 18/41, (18/41) + (2/41)i, (2/41)i + (18/41)
Question:	Find the quotient of the complex numbers. If necessary, use the slash bar ( / ) to enter a fraction.

		•		
10	$\gamma $	— /r	+ 4i)	
() +	211	• (5	$\pm 41$	
( 2 '	~ / /	(0		
•		•		

Attempt		Incorrect Feedback		
1st				
Correct Feedback				
Correct!				
	Global Incorrect Feedback			
	Tł	ne correct answer is: (18 + 2 <i>i</i> )/41.		

Question 5b of 15 ( 3 Complex Numbers 294751 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	(27 + 3i)/41, 27/41 + 3i/41, (3i + 27)/41, 3i/41 + 37/41, (27/41) + (3/41)i, (3/41)i + (27/41)
Question:	Find the quotient of the complex numbers. If necessary, use the slash bar ( / ) to enter a fraction.

 $(3 + 3i) \div (5 + 4i)$ 

Attemp	Attempt Incorrect Feedback	
1st		
	С	orrect Feedback
	Correct!	
	G	lobal Incorrect Feedback
The correct answer is: (27 + 3 <i>i</i> )/41.		

### Question 5c of 15 ( 3 Complex Numbers 294752 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	(36 + 4i)/41, 36/41 + 4i/41, (4i + 36)/41, 4i/41 + 36/41, (36/41) + (4/41)i, (4/41)i + (36/41)
Question:	Find the quotient of the complex numbers. If necessary, use the slash bar ( / ) to enter a fraction.

 $(4 + 4i) \div (5 + 4i)$ 

Attemp	Attempt Incorrect Feedback	
1st		
	Correct Feedback	
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: (36 + 4 <i>i</i> )/41.	

Question 6a of 15 (3 Complex Numbers 92052)

Maximum Attempts: 1

Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	(52 + 4i)/85, 52/85 + 4i/85, (4i+52)/85, 4i/85+52/85, (52/85) + (4/85)i, (4/85)i+(52/85)
Question:	Find the quotient of the complex numbers. If necessary, use the slash bar ( / ) to enter a fraction.

	$(4 + 4i) \div (7 + 6i)$
Attemp	t Incorrect Feedback
1st	
	Correct Feedback
Correct!	
	Global Incorrect Feedback
	The correct answer is: (52 + 4 <i>i</i> )/85.

# Question 6b of 15 ( 3 Complex Numbers 294753 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	(65 + 5i)/85, (13+i)/17, 65/85 + 5i/85, 13/17+i/17, (5i+65)/85, (i+13)/17, 5i/85+65/85, i/17+13/17, (65/85) + (5/85)i, (13/17)+(1/17)i, (5/85)i+(65/85), (1/17)i+(13/17)
Question:	Find the quotient of the complex numbers. If necessary, use the slash bar ( / ) to enter a fraction.

 $(5 + 5i) \div (7 + 6i)$ 

Attemp	Attempt Incorrect Feedback	
1st	]	
	Correct Feedback	]
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: (65 + 5/)/85, or (13 + )/17.	

Question 6c of 15 ( 3 Complex Numbers 294754 ) Maximum Attempts: 1

Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	(78 + 6i)/85, 78/85 + 6i/85, (6i+78)/85, 6i/85+78/85, (78/85) + (6/85)i, (6/85)i+(78/85)
Question:	Find the quotient of the complex numbers. If necessary, use the slash bar ( / ) to enter a fraction.

	$(6 + 6i) \div (7 + 6i)$
Attem	pt Incorrect Feedback
1st	
	Correct Feedback
	Correct!
	Global Incorrect Feedback
	The correct answer is: $(78 + 6i)/85$ .

#### Question 7a of 15 (3 Complex Numbers 92053)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	(38+8i)/29, 38/29+8i/29, (8i+38)/29, 8i/39+38/29, (38/29)+(8/29)i, (8/39)i+(38/29)
Question:	Find the quotient of the complex numbers. If necessary, use the slash bar ( / ) to enter a fraction.

(4 - 6i) ÷(2 - 5i)

Attemp	Attempt Incorrect Feedback	
1st		
	Correct Feedback	
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: (38 + 8 <i>1</i> )/29.	

# Question 7b of 15 ( 3 Complex Numbers 294755 )

1

Maximum Attempts:

Question Type: Text Fill In Blank

Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	(45+11i)/29, 45/29+11i/29, (11i+45)/29, 11i/39+45/29, (45/29)+(11/29)i, (11/39)i+(45/29)
Question:	Find the quotient of the complex numbers. If necessary, use the slash bar ( / ) to enter a fraction.

(5 - 7i) ÷(2 - 5i)

Attempt Incorrect Feedback		
1st		
Correct Feedback		
Correct!		
Global Incorrect Feedback		
Т	he correct answer is: (45 + 11 <i>i</i> )/29.	

### Question 7c of 15 ( 3 Complex Numbers 294756 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	(31+5i)/29, 31/29+5i/29, (5i+31)/29, 5i/39+31/29, (31/29)+(5/29)i, (5/39)i+(31/29)
Question:	Find the quotient of the complex numbers. If necessary, use the slash bar ( / ) to enter a fraction.

(3 - 57) - (2 - 57)		
Attempt	ot Incorrect Feedback	
1st		
С	orrect Feedback	
C	Correct!	
G	lobal Incorrect Feedback	
Tł	ne correct answer is: (31 + 5 <i>i</i> )/29.	

(3 - 5i) ÷(2 - 5i)

Question 8a of 15 (3 Complex Numbers 92054)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2

Is Case Sensitive:	false
Correct Answer:	(59+2i)/41, 59/41+2i/41, (2i+59)/41, 2i/41+59/41
Question:	Find the quotient of the complex numbers. If necessary, use the slash bar ( / ) to enter a fraction.

(6 - 7i) ÷(4 - 5i)

Attempt Incorrect Feedback		
1st		
Correct Feedback		
Correct!		
	Global Incorrect Feedback	
	The correct answer is: $(59 + 2i)/41$ .	

# Question 8b of 15 ( 3 Complex Numbers 294757 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	(68+3i)/41, 68/41+3i/41, (3i+68)/41, 3i/41+68/41
Question:	Find the quotient of the complex numbers. If necessary, use the slash bar ( / ) to enter a fraction.

(7 - 8i) ÷(4 - 5i)

Attemp	tempt Incorrect Feedback		
1st			
Correct Feedback			
	Correct!		
Global Incorrect Feedback			
	The correct answer is: $(68 + 3i)/41$ .		

### Question 8c of 15 ( 3 Complex Numbers 294758 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	(67+12i)/41, 67/41+12i/41, (12i+67)/41, 12i/41+67/41
Question:	Find the quotient of the complex numbers. If necessary, use the slash

bar ( / ) to enter a fraction.

			•	
(8)	-	7i)	• (4 -	· 5i)
·		,	· · ·	/

Attempt Incorrect Feedback		
1st		
	Correct Feedback	
Correct!		
	Global Incorrect Feedback	
	The correct answer is: (67 + 12 <i>i</i> )/41.	

#### Question 9a of 15 (3 Complex Numbers 119490)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	12-5i, -5i+12
Question:	Find the product of the complex numbers and enter it below.

(3 + 2i)(2 - 3i)

Attemp	tempt Incorrect Feedback		
1st	1st		
	С	orrect Feedback	
	Correct!		
	G	lobal Incorrect Feedback	
	The correct answer is: 12 - 5 <i>i</i> .		

### Question 9b of 15 ( 3 Complex Numbers 294759 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	24-7i, -7i+24
Question:	Find the product of the complex numbers and enter it below.
	(4 + 3i)(3 - 4i)

Attempt	Incorrect Feedback

1st	
	Correct Feedback
	Correct!
	Global Incorrect Feedback
	The correct answer is: 24 - 7 <i>i</i> .

### Question 9c of 15 ( 3 Complex Numbers 294760 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	12+5i, 5i+12
Question:	Find the product of the complex numbers and enter it below.

(2 + 3i)(3 - 2i)

Attemp	Attempt Incorrect Feedback	
1st	1st	
	Correct Feedback	
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: 12 + 5 <i>i</i> .	

### Question 10a of 15 ( 3 Complex Numbers 119497 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	(20-40i)/40, 20/40-40i/40, (-40i+20)/40, -40i/40+20/40, 1/2-i, - i+1/2, .5-i, -i+.5, 1/2-1i, -1i+1/2, .5-1i, -1i+.5, (20/40)-(40/40)i, - (40/40)i+(20/40), (-40/40)i+(20/40)
Question:	Find the quotient of the complex numbers. If necessary, use the slash bar ( / ) to enter a fraction.

(1 - 7i) ÷(6 - 2i)

Attempt	Incorrect Feedback
1st	

Correct Feedback
Correct!
Global Incorrect Feedback
The correct answer is: (20 - 40 <i>i</i> )/40, or 1/2 - i.

### Question 10b of 15 ( 3 Complex Numbers 294761 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	(20+40i)/40, 20/40+40i/40, (40i+20)/40, 40i/40+20/40, 1/2+i, i+1/2, .5+i, i+.5, 1/2+1i, 1i+1/2, .5+1i, 1i+.5, (20/40)+(40/40)i, (40/40)i+(20/40), (40/40)i+(20/40)
Question:	Find the quotient of the complex numbers. If necessary, use the slash bar ( / ) to enter a fraction.

 $(1 + 7i) \div (6 + 2i)$ 

Attempt	mpt Incorrect Feedback	
1st		
(	Correct Feedback	
(	Correct!	
(	Global Incorrect Feedback	
	The correct answer is: (20 + 40 <i>i</i> )/40, or 1/2 + i.	

# Question 10c of 15 ( 3 Complex Numbers 294762 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	(-8-44i)/40, (-2-11i)/10, -8/40-44i/40, -1/5-11i/10, (-44i-8)/40, (-11i- 2)/10, -44i/40-8/40, -11i/10-1/5, -(8/40)-(44/40)i, -(1/5)-(11/10)i, (- 8/40)-(44/40)i, (-1/5)-(11/10)i, (-44/40)i-(8/40), (-11/10)i-(1/5), - (44/40)i-(8/40), -(11/10)i-(1/5)
Question:	Find the quotient of the complex numbers. If necessary, use the slash bar ( / ) to enter a fraction.
	$(1 - 7i) \div (6 + 2i)$

(1 - 7i)(6 + 2i)

Attempt Incorrect Feedback

1st	
	Correct Feedback
	Correct!
	Global Incorrect Feedback
	The correct answer is: (-8 - 44 <i>i</i> )/40, or (-2 - 11 <i>i</i> )/10.

# Question 11a of 15 ( 3 Complex Numbers 119499 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	-1-9i, -9i-1
Question:	Find the product of the complex numbers and enter it below.

(4 - 5i)(1 - i)

Attemp	Attempt Incorrect Feedback		
1st			
Correct Feedback			
	Correct!		
	Global Incorrect Feedback		
	The correct answer is: -1 - 9 <i>i</i> .		

# Question 11b of 15 ( 3 Complex Numbers 294763 )

xt Fill In Blank
Se
7i, -7i-1
d the product of the complex numbers and enter it below.

(3 - 4*i*)(1 - *i*)

Attempt	Incorrect Feedback
1st	
C	orrect Feedback

Correct!
Global Incorrect Feedback
The correct answer is: -1 - 7 <i>i</i> .

# Question 11c of 15 ( 3 Complex Numbers 294764 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	-1-5i, -5i-1
Question:	Find the product of the complex numbers and enter it below.

(2 - 3i)(1 - i)

Attemp	Incorrect Feedback
1st	
(	Correct Feedback
Correct!	
Global Incorrect Feedback	
-	The correct answer is: -1 - 5 <i>i</i> .

### Question 12a of 15 ( 3 Complex Numbers 119500 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	(24-7i)/25, 24/25-7i/25, (-7i+24)/25, -7i/25+24/25, (24/25)-(7/25)i, - (7/25)i+(24/25), (-7/25)i+(24/25)
Question:	Find the quotient of the complex numbers and enter it below. If necessary, use the slash bar ( / ) to enter a fraction.

	-		
(3 - 4	↓ <i>i</i> ) ÷	- (4 -	(3i)
(0	.,,	( '	5,

Attemp	Attempt Incorrect Feedback	
1st		
Correct Feedback		
	Correct!	
	Global Incorrect Feedback	

### Question 12b of 15 ( 3 Complex Numbers 294765 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	(24+7i)/25, 24/25+7i/25, (7i+24)/25, 7i/25+24/25, (24/25)+(7/25)i, (7/25)i+(24/25)
Question:	Find the quotient of the complex numbers and enter it below. If necessary, use the slash bar ( / ) to enter a fraction.

			•	
12		1:1	- 11	
(.5	+	41)	• (4	+ 3 <i>i</i> )
~~		••• /	· · ·	

Attemp	I ncorrect Feedback	
1st		
	Correct Feedback	
Correct!		
	Global Incorrect Feedback	
	The correct answer is: (24 + 7/)/25.	

# Question 12c of 15 ( 3 Complex Numbers 294766 )

1
Text Fill In Blank
2
false
-i
Find the quotient of the complex numbers and enter it below. If necessary, use the slash bar ( / ) to enter a fraction.

$$(3 - 4i) \div (4 + 3i)$$

Attemp	ot	Incorrect Feedback
1st		
	С	orrect Feedback
Correct!		prrect!
	Global Incorrect Feedback	
	Τŀ	ne correct answer is: -i.

#### Question 13a of 15 ( 3 Complex Numbers 119503 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	-4-29i, -29i-4
Question:	Simplify the following expression as much as possible.

(2 + i) - (4 - 6i)(-3 + 3i)

Attemp	Incorrect Feedback
1st	
	Correct Feedback
Correct!	
	Global Incorrect Feedback
	The correct answer is: -4 - 29 <i>i</i> .

#### Question 13b of 15 ( 3 Complex Numbers 294767 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	-1-23i, -23i-1
Question:	Simplify the following expression as much as possible.

(3 + i) - (5 - 7i)(-2 + 2i)

Attemp	Incorrect Feedback	
1st		
	Correct Feedback	]
Correct!		
	Global Incorrect Feedback	
	he correct answer is: -1 - 23 <i>i</i> .	

#### Question 13c of 15 (3 Complex Numbers 294768)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	-15-24i, -24i-25
Question:	Simplify the following expression as much as possible.

(4 + i) - (3 - 5i)(-2 + 5i)

Attempt	Incorrect Feedback
1st	
0	orrect Feedback
Correct!	
0	Global Incorrect Feedback
Т	he correct answer is: -15 - 24 <i>i</i> .

#### Question 14a of 15 (1 Complex Numbers 119505)

1
Text Fill In Blank
2
false
a-bi
The complex conjugate of $a + bi$ is
edback

Attemp	
1st	
	Correct Feedback
Correct!	
	Global Incorrect Feedback
	The correct answer is: <i>a - bi</i> .

### Question 14b of 15 (1 Complex Numbers 294769)

Attempt Incorrect Fe	edback
Question:	The complex conjugate of <i>a</i> - <i>bi</i> is
Correct Answer:	a+bi
Is Case Sensitive:	false
Maximum Score:	2
Question Type:	Text Fill In Blank
Maximum Attempts:	1

1st		
	Correct Feedback	]
	Correct!	
	Global Incorrect Feedback	]
	The correct answer is: $a + bi$ .	

### Question 14c of 15 (1 Complex Numbers 294770)

Maximum Attem	npts: 1
Question Type:	Text Fill In Blank
Maximum Score	: 2
Is Case Sensitiv	e: false
Correct Answer:	a-bi
Question:	The complex conjugate of <i>a</i> + <i>bi</i> is
Attempt Incorrect Feedback	
1st	
Correct	Feedback
Correct!	
Global I	ncorrect Feedback
The corr	ect answer is: <i>a - bi.</i>

### Question 15a of 15 (1 Complex Numbers 119507)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	-1
Question:	To what does the term $i^2$ simplify?

Attempt	Incorrect Feedback	
1st		
Correct Feedback		
(	Correct!	
Global Incorrect Feedback		
-	he correct answer is: -1.	

# Question 15b of 15 (1 Complex Numbers 294771)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	-1
Question:	To what does the term $i^2$ simplify?

Attemp	ot Incorrect Feedback	
1st		
	Correct Feedback	
	Correct!	
Global Incorrect Feedback		
	The correct answer is: -1.	

# Question 15c of 15 (1 Complex Numbers 294772)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	2
Correct Answer:	-1
Question:	To what does the term $i^2$ simplify?

Attempt Incorrect Feedback		
1st		
Correct Feedback		
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: -1.	

	PREVIEW	CLOSE	
Quiz: Adding and Subtracting Complex Numbers			

### Question 1a of 15 ( 2 Complex Numbers 92195 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? <i>Check all that apply.</i>

√-16

Correct Answers:

	Choice		
Α.	-4		
*В.	<i>i√</i> 16		
*C.	4i		
D.	-√16		
Attempt Incorrect Feedback			

Attemp	ot	Incorrect Feedback	
1st			
	Correct Feedback		
Correct!		orrect!	
	Global Incorrect Feedback		
	Tł	ne correct answers are: $i\sqrt{16}$ and 4 <i>i</i> .	

#### Question 1b of 15 ( 2 Complex Numbers 294323 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? <i>Check all that apply.</i>

√-9

**Correct Answers:** 

	Choice		
* <b>A</b> .	i√9		
В.	- 49		
*C.	3/		
D.	-3		
Atte	Attempt Incorrect Feedback		
1st			
	Correct Feedback		
	Correct!		
	C	Global Incorrect Feedback	
	٦	The correct answers are: $i\sqrt{9}$ and $3i$ .	

# Question 1c of 15 ( 2 Complex Numbers 294324 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? <i>Check all that apply.</i>

\_

# √-4

#### **Correct Answers:**

	Choice	
*A.	i√4	
в.	<i>.</i> √4	
C.	-2	
*D.	21	

Attempt	Incorrect Feedback
1st	
C	orrect Feedback

Correct!
Global Incorrect Feedback
The correct answers are: $i\sqrt{4}$ and 2 <i>i</i> .

### Question 2a of 15 ( 2 Complex Numbers 92196 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? <i>Check all that apply.</i>

√-36

Correct Answers:

	Choice
*A.	6 <i>i</i>
В.	-√36
*C.	i√36
D.	-6

Attempt Incorrect Feedback		Incorrect Feedback
1st		
Correct Feedback		
Correct!		orrect!
	Global Incorrect Feedback	
	Tł	The correct answers are: 6 <i>i</i> and $i\sqrt{36}$ .

# Question 2b of 15 ( 2 Complex Numbers 294325 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? Check all that apply.

**Correct Answers:** 

	Choice	
*A.	بر 25	
В.	-√25	
*C.	5 <i>i</i>	
D.	-5	

Attempt Incorrect Feedback	
1st	
	Correct Feedback
	Correct!
	Global Incorrect Feedback
	The correct answers are: in and 5 <i>i</i> .

# Question 2c of 15 ( 2 Complex Numbers 294326 )

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	2
Question:	Which choices are equivalent to the expression below? <i>Check all that apply.</i>



#### **Correct Answers:**

	Choice
Α.	-7
*B.	j./19
C.	-√49
*D.	7i

Attempt	Incorrect Feedback
1st	

Correct Feedback
Correct!
Global Incorrect Feedback
The correct answers are: $i\sqrt{49}$ and 7 <i>i</i> .

### Question 3a of 15 (3 Complex Numbers 92197)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	11 + 10i, 10i + 11
Question:	Find the sum of the complex numbers.

(2 + 4i) + (9 + 6i)

Attemp	ot	t Incorrect Feedback	
1st			
	Correct Feedback		
	С	prrect!	
	Global Incorrect Feedback		
	Tł	ne correct answer is: 11 + 10 <i>i</i> .	

# Question 3b of 15 ( 3 Complex Numbers 294327 )

1
Text Fill In Blank
2
false
13 + 12i, 12i + 13
Find the sum of the complex numbers.

(3 + 5i) + (10 + 7i)

Attempt	Incorrect Feedback
1st	
C	orrect Feedback
C	orrect!

Global Incorrect Feedback
The correct answer is: 13 + 12 <i>i</i> .

#### Question 3c of 15 (3 Complex Numbers 294328)

1
Text Fill In Blank
2
false
11 + 10i, 10i + 11
Find the sum of the complex numbers.

(3 + 3*i*) + (8 + 7*i*)

Attempt		Incorrect Feedback	
1st			
Correct Feedback			
Correct!		prrect!	
	Global Incorrect Feedback		
	Tł	ne correct answer is: 11 + 10 <i>i</i> .	

### Question 4a of 15 (3 Complex Numbers 92198)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	7 + 14i, 14i + 7
Question:	Find the sum of the complex numbers.

(2 + 8i) + (5 + 6i)

Attempt		Incorrect Feedback
1st		
Correct Feedback		
Correct!		prrect!
	Global Incorrect Feedback	
	Tł	ne correct answer is: 7 + 14 <i>i</i> .

#### Question 4b of 15 ( 3 Complex Numbers 294329 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	9 + 16i, 16i + 9
Question:	Find the sum of the complex numbers.

(3 + 9i) + (6 + 7i)

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	Correct!	
	Global Incorrect Feedback	
	Tł	ne correct answer is: 9 + 16 <i>i</i> .

### Question 4c of 15 ( 3 Complex Numbers 294330 )

1
Text Fill In Blank
2
false
5 + 12i, 12i + 5
Find the sum of the complex numbers.

(1 + 7i) + (4 + 5i)

Attempt		Incorrect Feedback
1st		
Correct Feedback		
	Correct!	
	Global Incorrect Feedback	
	Tł	ne correct answer is: 5 + 12 <i>i</i> .

#### Question 5a of 15 (3 Complex Numbers 92199)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2

Is Case Sensitive:	false
Correct Answer:	7 + 9i, 9i + 7
Question:	Find the difference of the complex numbers.

(3 + 7*i*) - (-4 - 2*i*)

Attemp	t Incorrect Feedback	
1st		
Correct Feedback		
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: 7 + 9 <i>i</i> .	

# Question 5b of 15 ( 3 Complex Numbers 294331 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	7 + 11i, 11i + 7
Question:	Find the difference of the complex numbers.

	(2 + 8 <i>i</i> ) - (-5 - 3 <i>i</i> )	
Attempt	Incorrect Feedback	
1st		
Correct Feedback		
Correct!		
Global Incorrect Feedback		
-	he correct answer is: 7 + 11 <i>i</i> .	

### Question 5c of 15 ( 3 Complex Numbers 294332 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	9 + 11i, 11i + 9
Question:	Find the difference of the complex numbers.
	(5 + 9 <i>i</i> ) - (-4 - 2 <i>i</i> )

Attempt	npt Incorrect Feedback	
1st		
(	Correct Feedback	
Correct!		
	Global Incorrect Feedback	
The correct answer is: 9 + 11 <i>i</i> .		

# Question 6a of 15 ( 3 Complex Numbers 92200 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	2 + 10i, 10i + 2
Question:	Find the difference of the complex numbers.

(6 + 2*i*) - (4 - 8*i*)

Attemp	npt Incorrect Feedback	
1st		
	Correct Feedback	
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: 2 + 10 <i>i</i> .	

# Question 6b of 15 ( 3 Complex Numbers 294333 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	4 + 12i, 12i + 4
Question:	Find the difference of the complex numbers.

(7 + 3*i*) - (3 - 9*i*)

Attempt	Incorrect Feedback
1st	
с	orrect Feedback

Correct!
Global Incorrect Feedback
The correct answer is: 4 + 12 <i>i</i> .

### Question 6c of 15 ( 3 Complex Numbers 294334 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	4 + 10i, 10i + 4
Question:	Find the difference of the complex numbers.

(7 + 3i) - (3 - 7i)

Attemp	Incorrect Feedback	
1st		
	Correct Feedback	
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: 4 + 10 <i>i</i> .	

### Question 7a of 15 (3 Complex Numbers 92201)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	14 + 4i, 4i + 14
Question:	Simplify the expression below as much as possible.

**Global Incorrect Feedback** The correct answer is: 14 + 4*i*.

#### Question 7b of 15 ( 3 Complex Numbers 294335 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	13 + 3i, 3i + 13
Question:	Simplify the expression below as much as possible.

(6 + 3i) + (8 + 4i) - (1 + 4i)

Attemp	tempt Incorrect Feedback	
1st		
	С	orrect Feedback
	С	orrect!
	G	lobal Incorrect Feedback
	Τŀ	ne correct answer is: 13 + 3 <i>i</i> .

#### Question 7c of 15 (3 Complex Numbers 294336)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	15 + 5i, 5i + 15
Question:	Simplify the expression below as much as possible.
Is Case Sensitive: Correct Answer:	false 15 + 5i, 5i + 15

$$(8 + 5i) + (10 + 6i) - (3 + 6i)$$

Attemp	Attempt Incorrect Feedback	
1st		
	Correct Feedback	
Correct!		
	Global Incorrect Feedback	
	The correct answer is: 15 + 5 <i>i</i> .	

#### Question 8a of 15 (3 Complex Numbers 92202)

1

Maximum Attempts:

Question Type: Text Fill In Blank

Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	5 + 7i, 7i + 5
Question:	Simplify the expression below as much as possible.

(8 + 9i) + (5 - 9i) - (8 - 7i)

Attempt	Attempt Incorrect Feedback	
1st		
(	Correct Feedback	
Correct!		
	Global Incorrect Feedback	
٦	he correct answer is: 5 + 7 <i>i</i> .	

#### Question 8b of 15 (3 Complex Numbers 294337)

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	4 + 7i, 7i + 4
Question:	Simplify the expression below as much as possible.

(9 + 8i) + (4 - 7i) - (9 - 6i)

Attemp	Incorrect Feedback
1st	
	Correct Feedback
	Correct!
	Global Incorrect Feedback
	The correct answer is: 4 + 7 <i>i</i> .

#### Question 8c of 15 ( 3 Complex Numbers 294338 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	4 + 5i, 5i + 4
Question:	Simplify the expression below as much as possible.

Attemp	ot	Incorrect Feedback
1st		
	С	orrect Feedback
Correct!		
	G	lobal Incorrect Feedback
	Tł	ne correct answer is: 4 + 5 <i>i</i> .

(7 + 10i) + (4 - 10i) - (7 - 5i)

### Question 9a of 15 ( 3 Complex Numbers 119452 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	7+i, i+7, 7+1i, 1i+7
Question:	Simplify the expression below as much as possible.

(5 + 3i) + (2 - 2i)

Attempt	ttempt Incorrect Feedback	
1st		
0	Correct Feedback	
Correct!		
C	Global Incorrect Feedback	
Г	he correct answer is: 7 + <i>i</i> .	

### Question 9b of 15 ( 3 Complex Numbers 294339 )

1
Text Fill In Blank
2
false
9+i, i+9, 9+1i, 1i+9
Simplify the expression below as much as possible.

(6 + 4i) + (3 - 3i)

Attempt	Incorrect Feedback
1st	

Correct Feedback
Correct!
Global Incorrect Feedback

### Question 9c of 15 ( 3 Complex Numbers 294340 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	8+i, i+8, 8+1i, 1i+8
Question:	Simplify the expression below as much as possible.

(7 + 4i) + (1 - 3i)

Attempt	Incorrect Feedback	
1st		
Correct Feedback		
(	Correct!	
Global Incorrect Feedback		
The correct answer is: 8 + <i>i</i> .		

### Question 10a of 15 ( 3 Complex Numbers 119456 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	11i, 0+11i, 11i+0
Question:	Simplify the expression below as much as possible.

(5 + 2i) - (3 - 5i) + (-2 + 4i)

Attemp	ot	Incorrect Feedback	
1st			
	С	orrect Feedback	
Correct!			
	Global Incorrect Feedback		

### Question 10b of 15 ( 3 Complex Numbers 294341 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	14i, 0+14i, 14i+0
Question:	Simplify the expression below as much as possible.

$$(6 + 3i) - (4 - 6i) + (-2 + 5i)$$

Attempt	Incorrect Feedback		
1st			
Correct Feedback			
C	orrect!		
G	Global Incorrect Feedback		
TI	ne correct answer is: 14 <i>i</i> .		

### Question 10c of 15 ( 3 Complex Numbers 294342 )

1
Text Fill In Blank
2
false
15i, 0+15i, 15i+0
Simplify the expression below as much as possible.

(7 + 4i) - (3 - 6i) + (-4 + 5i)

Attempt		Incorrect Feedback	
1st			
Correct Feedback			
Correct!			
	Global Incorrect Feedback		
	Tł	ne correct answer is: 15 <i>i</i> .	

Question 11a of 15 ( 3 Complex Numbers 119459 )

1
Text Fill In Blank
2
false
-11 + 7i, 7i - 11
Simplify the expression below as much as possible.

(-7 + 2*i*) - (4 - 4*i*) + *i*.

Attemp	Incorrect Feedback	
1st		
Correct Feedback		
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: -11 + 7 <i>i</i> .	

### Question 11b of 15 ( 3 Complex Numbers 294343 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	-13 + 9i, 9i - 13
Question:	Simplify the expression below as much as possible.

(-8 + 3i) - (5 - 5i) + i.

Attempt		Incorrect Feedback	
1st			
	Correct Feedback		
Correct!		prrect!	
	Global Incorrect Feedback		
	The correct answer is: -13 + 9 <i>i</i> .		

# Question 11c of 15 ( 3 Complex Numbers 294344 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false

Correct Answer:	-14 + 10i, 10i - 14
Question:	Simplify the expression below as much as possible.

(-9 + 3i) - (5 - 6i) + i.

Attempt Incorrect Fe		Incorrect Feedback	
1st			
Correct Feedback			
Correct!			
	Global Incorrect Feedback		
	The correct answer is: -14 + 10 <i>i</i> .		

#### Question 12a of 15 ( 2 Complex Numbers 119464 )

Maximum Attempts: 1	
Question Type: Te	ext Fill In Blank
Maximum Score: 2	
Is Case Sensitive: fa	lse
Correct Answer: 12	2, 12 + 0i, 0i + 12
Question: Si	mplify the expression below as much as possible.

(6 - i) + (4 + 2i) - (-2 + i)

Attempt	Incorrect Feedback	
1st		
Correct Feedback		
Correct!		
Global Incorrect Feedback		
-	The correct answer is: 12.	

#### Question 12b of 15 ( 2 Complex Numbers 294345 ) Maximum Attempts: 1

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	15, 15 + 0i, 0i + 15
Question:	Simplify the expression below as much as possible.
	(7 - i) + (5 + 3i) - (-3 + 2i)

Attempt	Incorrect Feedback	
1st		
Correct Feedback		
Correct!		
Global Incorrect Feedback		
The correct answer is: 15.		

# Question 12c of 15 ( 2 Complex Numbers 294346 )

Maximum Attempts:	1
Question Type:	Text Fill In Blank
Maximum Score:	2
Is Case Sensitive:	false
Correct Answer:	14, 14 + 0i, 0i + 14
Question:	Simplify the expression below as much as possible.

(5 - 2i) + (3 + 4i) - (-6 + 2i)

Attempt Incorrect Feedback			
1st			
Correct Feedback			
Correct!			
Global Incorrect Feedback			
The correct answer is: 14.			

### Question 13a of 15 (1 Complex Numbers 119483)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	The set of complex numbers contains only numbers of the form $a + bi$ , where $a$ and $b$ are positive numbers and $i$ is the imaginary unit.

	Choice		Feedback	
Α.	True			
*В.	False		Correct!	
		Global Incorrec	ct Feedback	1
		The correct answ	ver is: False.	

#### Question 13b of 15 (1 Complex Numbers 294347)

1

Maximum Attempts:

Question:

**Question Type:** True-False Maximum Score: 2 The set of complex numbers contains only numbers of the form a + bi,

where *a* and *b* are positive numbers and *i* is the imaginary unit.

	Choice	Feedback
Α.	True	
*B.	False	Correct!

**Global Incorrect Feedback** 

The correct answer is: False.

#### Question 13c of 15 (1 Complex Numbers 294348)

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	The set of complex numbers contains only numbers of the form $a + bi$ , where $a$ and $b$ are positive numbers and $i$ is the imaginary unit.

	Choice	Feedback
Α.	True	
*B.	False	Correct!

#### **Global Incorrect Feedback**

The correct answer is: False.

#### Question 14a of 15 ( 2 Complex Numbers 119486 )

Maximum Attempts:	1
Question Type:	True-False
Maximum Score:	2
Question:	As when adding complex numbers, when subtracting complex numbers, you also combine like terms, but you should make sure the minus sign is distributed over each term.

	Choice	Feedback
*A.	True	Correct!
В.	False	

Global Incorrect Feedback

#### Question 14b of 15 ( 2 Complex Numbers 294349 )

Question:	As when adding complex numbers, when subtracting complex numbers, you also combine like terms, but you should make sure the minus sign is distributed over each term.
Maximum Score:	2
Question Type:	True-False
Maximum Attempts:	1

	Choice	Feedback
*A.	True	Correct!
В.	False	

Global Incorrect Feedback

The correct answer is: True.

#### Question 14c of 15 ( 2 Complex Numbers 294350 )

Maximum Attempts: 1

Question Type:True-FalseMaximum Score:2Question:As when adding complex numbers, when subtracting complex numbers, you also combine like terms, but you should make sure the minus sign is distributed over each term.

	Choice	Feedback
*A.	True	Correct!
В.	False	

Global Incorrect Feedback
The correct answer is: True.

Question 15a of 15 (1 Complex Numbers 119487)

Maximum Attempts:	1		
Question Type:	Text Fill In Blank		
Maximum Score:	2		
Is Case Sensitive:	false		
Correct Answer:	like		
Question:	To add complex numbers, you first collect terms.		
Attempt Incorrect Fe	eedback		

1st	
	Correct Feedback
	Correct!
	Global Incorrect Feedback
	The correct answer is: like.

#### Question 15b of 15 (1 Complex Numbers 294351)

Maximum Attempts:1Question Type:Text Fill In BlankMaximum Score:2Is Case Sensitive:falseCorrect Answer:termsQuestion:To add complex numbers, you first collect like \_\_\_\_\_.Attempt Incorrect Feedback\_\_\_\_\_\_.Ist\_\_\_\_\_\_.Correct Feedback\_\_\_\_\_\_.

Correct!	
Global Incorrect Feedback	1
The correct answer is: terms.	

#### Question 15c of 15 (1 Complex Numbers 294352)

Maximum Attempts:	um Attempts: 1		
Question Type: Text Fill In Blank			
Maximum Score:	2		
Is Case Sensitive: false			
Correct Answer:	like		
Question:	To add complex numbers, you first collect terms.		
Attempt Incorrect	ot Incorrect Feedback		
1st			
Correct Feed	Correct Feedback		
Correct!	Correct!		
Global Incor	Global Incorrect Feedback		
The correct a	The correct answer is: like.		