PREVIEW

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?

43 + 43

	Choice	Feedback
A.	[უ უ	
*В.	Ļ×	Correct!
c.	9√2	
D.		

#### **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?

	Choice	Feedback
A.	e. G	
*B.	Ęoj Poj	Correct!
c.	3,5	
D.	بر ۲۰	

### **Global Incorrect Feedback**

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

## 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?

$$\sqrt{14} \cdot \sqrt{8}$$

	Choice	Feedback
*A.	4√7	Correct!
В.	16√7	
c.	4√28	
D.	28	

### **Global Incorrect Feedback**

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?

	Choice	Feedback
A.		
В.		
*C.		Correct!
D.	28	

#### **Global Incorrect Feedback**

The correct answer is:

### 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?

	Choice	Feedback
A.	4√7	
В.	4 √ <sup>9</sup> 5	
*C.	[5]	Correct!
D.	35	

#### **Global Incorrect Feedback**

The correct answer is:  $2\sqrt{55}$ .

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

Maximum Attempts: 1

**Question Type:** Multiple Choice

Maximum Score: 2

**Question:** Which choice is equivalent to the product below?

	Choice	Feedback
A.	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?

	Choice	Feedback
A.		
В.		
c.		
*D.	6	Correct!

### **Global Incorrect 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?

	Choice	Feedback
A.	42.72	
*B.	8	Correct!
c.	 	
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?

	Choice	Feedback
Α.	16√5	
*В.	4√5	Correct!
c.	4√20	
D.	8√10	

#### **Global Incorrect Feedback**

The correct answer is:

### 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?

	Choice	Feedback
A.		
В.		
*C.		Correct!
D.	·	

#### **Global Incorrect Feedback**

The correct answer is:  $3\sqrt[6]{c}$ .

# 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?

1/2 · 1/3 · 1/3

	Choice	Feedback
*A.	ا 4	Correct!
В.	m √.	
c.	$\frac{1}{\sqrt{2}}$	
D.	4 <del>√</del> 12	

#### **Global Incorrect Feedback**

The correct answer is:  $4\sqrt{3}$ .

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? *Check all that apply.* 

5√3

	Choice
A.	√45
*В.	
c.	
*D.	
E.	75
*F.	

Attempt	Incorrect Feedback
1st	

Correct Feedback
Correct!

Global Incorrect Feedback	k	
The correct answers are:	,	, and

## 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? *Check all that apply.* 

e /3

#### **Correct Answers:**

	Choice
A.	J54
*B.	-/108
*C.	J(3 • J6
D.	√3 <b>•</b> √6
*E.	√3 <b>x</b> √36
F.	108

Attempt	Incorrect Feedback
1st	

Correct Feedback
Correct!

	Global Incorrect Feedback
	The correct answers are: $\sqrt{128}$ , $\sqrt{8}$ , $\sqrt{6}$ , and
	√3 • √36 ·

## 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? *Check all that apply.* 

	Choice
*A.	
*В.	
c.	
D.	
*E.	
F.	48

Attempt	Incorrect Feedback
1st	

Correct Feedback
Correct!

Global Incorrect Feedback	
The correct answers are: $\sqrt{12} \cdot \sqrt{4}$ , $\sqrt{48}$ , and $\sqrt{24} \cdot \sqrt{2}$ .	

## Question 6a of 15 ( 3 Products of Radicals 92147 )

Maximum Attempts: 1

**Question Type:** Multiple Response

**Maximum Score:** 2

**Question:** Which choices are equivalent to the expression below? *Check all that apply.* 

 $4\sqrt{6}$ 

#### **Correct Answers:**

	Choice
A.	96
*B.	√32 •√3
C.	$\sqrt{24}$
*D.	√16 • √6
*E.	√96
F.	√4 •√36

Attempt	Incorrect Feedback
1st	

Correct Feedback
Correct!

Global Incorrect Feedb	ack
The correct answers are	:: √32 •√3 , √16 •√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? *Check all that apply.* 

,	
	Choice
*A.	J54
*B.	J <u>27</u> • √[
c.	<u>113</u>
D.	√27 • √4
*E.	<u>√A • √8</u>
F.	54

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Correct!
	Global Incorrect Feedback
	The correct answers are:

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

**Maximum Attempts:** 1

√9 • √<u>6</u> •

**Question Type:** Multiple Response

**Maximum Score:** 2

**Question:** Which choices are equivalent to the expression below? *Check all that apply.* 

 $\mathbb{G}\sqrt{8}$ 

	Choice
*A.	49 • · (*
В.	√6 • √24
*C.	√3 • √21
D.	
E.	72
*F.	

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

## 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? *Check all that apply.* 

√6 •√8

#### **Correct Answers:**

	Choice
*A.	√16 • √3
*B.	√48
C.	12
*D.	4√3
E.	48
F.	√14

Attempt	Incorrect Feedback
1st	

Correct Feedback
Correct!

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? *Check all that apply.* 

	Choice
A.	60
*В.	
*C.	
*D.	
E.	20
F.	

Attempt	Incorrect Feedback
1st	

Correct Feedback
Correct!

Global Incorrect Feedback
The correct answers are: $\sqrt{30}$ , $2\sqrt{5}$ , and
-/4 +-/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? *Check all that apply.* 

√) • J.

#### **Correct Answers:**

	Choice
A.	√. <u>e</u>
*В.	√3 <u>2</u>
C.	12
*D.	√2 • √15
*E.	47.
F.	16

Attempt	Incorrect Feedback
1st	

Correct Feedback
Correct!

Global Incorrect Feedback
The correct answers are: $\sqrt{32}$ , $\sqrt{5}$ , $\sqrt{6}$ , and

# $\textbf{Question 8a of 15} \ ( \ \textbf{3 Products of Radicals 92149} \ )$

Maximum Attempts: 1

**Question Type:** Multiple Response

**Maximum Score:** 2

**Question:** Which choices are equivalent to the expression below? *Check all that apply.* 

	Choice
A.	
*В.	
*C.	
D.	150
E.	
*F.	

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Correct!
	Global Incorrect Feedback
	The correct answers are: $5\sqrt{6}$ , $\sqrt{150}$ , and $\sqrt{15}$ $\bullet$ $\sqrt{10}$ .

## 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.* 

√3 • √6 • √1<sub>0</sub>

#### **Correct Answers:**

	Choice
*A.	าฟิวา
В.	5 <b>√</b> 2
*C.	-/100
D.	180
*E.	√15 • √12
F.	9√20

Attempt	Incorrect Feedback
1st	

Correct Feedback
Correct!

Global Incorrect Feedback		
The correct answers are:	,	, and
·		

# 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? *Check all that apply.* 

	Choice
*A.	√co
*B.	2 <del>√</del> 25
C.	100
*D.	10
E.	104.0
F.	√ <u>.</u>

Attempt	Incorrect Feedback
1st	
	Correct Feedback

Correct Feedback
Correct!

Global Incorrect Feedback
The correct answers are: $\sqrt{100}$ , $2\sqrt{25}$ , 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 ( $\sqrt{\ }$ ) to indicate a square root. The number under this

sign is called the radical.

	Choice	Feedback
A.	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)

Maximum Attempts: 1

**Question Type:** True-False

Maximum Score: 2

**Question:** You write a radical sign ( $\sqrt{\ }$ ) to indicate a square root. The number under this

sign is called the radical.

	Choice	Feedback
A.	True	
*B.	False	Correct!

Global Incorrect Feedback

The correct answer is: False.

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

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 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)

**Maximum Attempts:** 1

**Question Type:** True-False

Maximum Score: 2

**Question:** Every positive number has only one square root.

	Choice	Feedback
A.	True	
*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:**

	Choice
A.	9.5
*B.	[9]
C.	3
*D.	-9
E.	-3
*F.	9

Attempt	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 )

Maximum Attempts: 1

**Question Type:** Multiple Response

**Maximum Score:** 2

**Question:** What are the square roots of 64? *Check all that apply.* 

	Choice
A.	8.5
В.	4
*C.	[8]
D.	-4
*E.	-8
*F.	8

Attempt	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
B.	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 )

Maximum Attempts: 1

**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:** What is the principal square root of 64?

	Choice	Feedback
A.	-8	
В.	4	
*C.	8	Correct!
D.	-4	

Global Incorrect Feedback
The correct answer is: 8.

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

**Maximum Attempts:** 

**Question Type:** Multiple Choice

Maximum Score: 2

**Question:** What is the principal square root of 16?

	Choice	Feedback
A.	-2	
В.	-4	
C.	2	
*D.	4	Correct!

Global Incorrect Feedback
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The correct answer is: 4.

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

Maximum Attempts: 1

**Question Type:** Multiple Choice

Maximum Score: 2

**Question:** For any number a,  $\sqrt{a^2} =$ \_\_\_\_\_.

	Choice	Feedback
A.	$a^2$	
В.	a -1	
*C.	a	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
A.	$a^2$	
B.	a -1	
C.	1	
*D.		Correct!

### **Global Incorrect Feedback**

The correct answer is:

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

Maximum Attempts:

**Question Type:** Multiple Choice

Maximum Score: 2

**Question:** For any number a,  $\sqrt{a^2} =$ \_\_\_\_.

	Choice	Feedback
A.	$a^2$	
*B.	a	Correct!
C.	1	
D.	a -1	

Global Incorrect Feedba	ماءد

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,  $(\sqrt{b})^2 = \underline{\hspace{1cm}}$ .

	Choice	Feedback
A.	<i>b</i> <sup>2</sup>	
*В.	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: 1

**Question Type:** Multiple Choice

Maximum Score: 2

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

	Choice	Feedback
*A.		Correct!
В.	<i>b</i> <sup>2</sup>	
c.		
D.	1	

#### **Global Incorrect Feedback**

The correct answer is:

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

Maximum Attempts: 1

**Question Type:** Multiple Choice

Maximum Score: 2

**Question:** For any nonnegative number  $b_i$ ,  $(\sqrt{b})^2 = \underline{\phantom{a}}$ .

	Choice	Feedback
*A.	b	Correct!
В.	$(\sqrt{b})^2$	
C.	<i>b</i> <sup>2</sup>	
D.	1	

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
A.	1	
В.	√0 <sup>2</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: 1

**Question Type:** Multiple Choice

Maximum Score: 2

**Question:** Which choice is equivalent to

	Choice	Feedback
*A.	0	Correct!
В.	- 1	
C.	undefined	
D.	1	

### **Global Incorrect Feedback**

The correct answer is: 0.

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

Maximum Attempts:

**Question Type:** Multiple Choice

**Maximum Score:** 2

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

	Choice	Feedback
A.	1	
В.	√0 <sup>2</sup> - 1	
*C.	0	Correct!
D.	undefined	

Global Incorrect Feedback				
The correct answer is: 0				