PREVIEW	CLOSE	

Quiz: Dividing Radicals

Question 1a of 14 (2 Dividing Radicals 92157)

1

2

Maximum Attempts: Question Type: Maximum Score: Question:

Multiple Choice

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

$$\sqrt{7x^2} \div \sqrt{3x}$$

	Choice	Feedback
Α.	<i>x</i> > 1	
В.	$x \ge 0$	
*C.	<i>x</i> > 0	Correct!
D.	<i>x</i> > -1	

Global Incorrect Feedback The correct answer is: x > 0.

Question 1b of 14 (2 Dividing Radicals 295308)

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

	Choice	Feedback	
Α.	<i>x</i> > -1		
*В.	<i>x</i> > 0	Correct!	
C.	$x \ge 0$		
D.	<i>x</i> > 1		

Global Incorrect Feedback

The correct answer is: x > 0.

Question 1c of 14 (2 Dividing Radicals 295309)

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

	Choice	Feedback
*A.	<i>x</i> > 0	Correct!
В.	x 0	
C.	<i>x</i> > 1	
D.	<i>x</i> > -1	

Question:

Global Incorrect Feedback The correct answer is: x > 0.

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Question 2a of 14 (2 Dividing Radicals 92158)

Maximum Attempts: Question Type: Maximum Score: Question:

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

$$\sqrt{30(x-1)} \div \sqrt{5x^2}$$

	Choice	Feedback
Α.	<i>x</i> > 1	
В.	<i>x</i> < -1	
C.	<i>x</i> ≤ -1	
*D.	$x \ge 1$	Correct!

Global Incorrect Feedback The correct answer is: $x \ge 1$.

Question 2b of 14 (2 Dividing Radicals 295310)

Maximum Attempts: Question Type: Maximum Score: Question:

1 Multiple Choice 2 Which inequality represents all value

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

	Choice	Feedback
*A.	$x \ge 1$	Correct!
В.	<i>x</i> < -1	
C.	<i>x</i> ≤ -1	
D.	<i>x</i> > 1	

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

Global Incorrect Feedback

The correct answer is: x = 1.

Question 2c of 14 (2 Dividing Radicals 295311)

Multiple Choice

1

Maximum Attempts: Question Type: Maximum Score: Question:

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

	Choice	Feedback
Α.	<i>x</i> > 1	
В.	<i>x</i> < -1	
*C.	x 1	Correct!
D.	x -1	

Global Incorrect Feedback The correct answer is: *x* 1.

Question 3a of 14 (3 Dividing Radicals 92159)

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Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the quotient shown here for acceptable values of <i>x</i> ?

$$\sqrt{7x^2} \div \sqrt{3x}$$

	Choice	Feedback
* A .	$\sqrt{\frac{7\times}{3}}$	Correct!
В.	$\times \sqrt{\frac{7x}{3}}$	
c.	$\sqrt{\frac{7x^3}{3}}$	
D.	$\sqrt{21x^3}$	



Question 3b of 14 (3 Dividing Radicals 295312)

Maximum Attempts:	1
Question Type:	Μ
Maximum Score:	2
Question:	۷

Multiple Choice 2 Which choice is equivalent to the quotient shown here for acceptable values of *x*?

	Choice	Feedback
Α.	_00_01 	
*В.		Correct!
c.		
D.		

Global Incorrect Feedback

Question 3c of 14 (3 Dividing Radicals 295313)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the quotient shown here for acceptable values of <i>x</i> ?

$$\sqrt{5\chi^2}$$
 : $\sqrt{5\chi}$

	Choice	Feedback
Α.	$\sqrt{45}x^3$	
*В.	$\left \frac{n}{n} \right _{\mathcal{F}}$	Correct!
c.	ال الم ال الم ال الم	
D.	$\times \sqrt{\frac{9\times}{5}}$	

Global Incorrect Feedback			
The correct answer is: $\sqrt{\frac{5\pi}{5}}$.			

Question 4a of 14 (3 Dividing Radicals 92160)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the quotient shown here for acceptable values of x ?
	$\sqrt{30(x-1)} \div \sqrt{5(x-1)^2}$

		√30(x - I) ·	÷√°
	Choice	Feedback	
Α.	√ 6(x - 1)		
В.	$\sqrt{30(x-1)-5(x-1)^2}$		
C.			
*D.		Correct!	

Global Incorrect Feedback

The correct answer is:

Question 4b of 14 (3 Dividing Radicals 295314)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the quotient shown here for acceptable values of x?

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	Choice	Feedback
*A.	$\frac{1}{\frac{5}{1+(x-1)}}$	Correct!
В.	,1∠5(×− ⁺²	
C.	$\sqrt{2}\overline{G}(x+1) = \overline{G}(x+1)^2$	
D.	φ5 (π 1)	

Global Incorrect Feedback		
The correct answer is: $\sqrt{\frac{t}{(x-1)}}$.		

Question 4c of 14 (3 Dividing Radicals 295315)

Maximum Attempts:1Question Type:Multiple ChoiceMaximum Score:2Question:Which choice is equivalent to the quotient shown here for acceptable values of x?

 $\sqrt{2} |z| x = \frac{1}{2} + \sqrt{2} (x - 1)^2$

	Choice	Feedback
Α.	$\sqrt{6(x-1)}$	
В.	$\sqrt{12(x^2 - 1)^2 - 2(x^2 - 1)}$	
*C.	$\sqrt{\frac{6}{(x-1)}}$	Correct!
D.	(24.(x 1) ³	

Global Incorrect Feedback		
The correct answer is: $\sqrt{\frac{6}{(x-1)}}$.		

Question 5a of 14 (3 Dividing Radicals 92161)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Ouestion:	Which choice is equivalent to the quotient shown here when $x > 0$?

	Choice	Feedback
Α.		
В.	2 <i>x</i>	
c.		
*D.		Correct!

Global Incorrect Feedback

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Question 5b of 14 (3 Dividing Radicals 295316)

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

	Choice	Feedback
Α.	$x^2\sqrt{2}$	
*В.	×√2	Correct!
C.	$\sqrt{2x}$	
D.	2 <i>x</i>	

Global Incorrect Feedback

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

Question 5c of 14 (3 Dividing Radicals 295318)

1

Maximum Attempts: Question Type: Maximum Score: Question:

Multiple Choice

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

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	Choice	Feedback
* A .	x√2	Correct!
в.	$x^2\sqrt{2}$	
C.	$\sqrt{2x}$	
D.	2 <i>x</i>	

Global Incorrect Feedback

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

Question 6a of 14 (3 Dividing Radicals 92162)

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

	Choice	Feedback
*A.		Correct!
В.	5 <i>x</i>	
C.		
D.	5 <i>x</i> ²	

Global Incorrect Feedback

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Question 6b of 14 (3 Dividing Radicals 295320)

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

$$\sqrt{42}n^5 + \sqrt{6}n^2$$

	Choice	Feedback
Α.	$\frac{1}{2}$	
В.	7 <i>x</i>	
C.	7 <i>x</i> ²	
*D.	х. <u>Г</u>	Correct!

Global Incorrect Feedback

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

Question 6c of 14 (3 Dividing Radicals 295321)

Maximum Attempts: Question Type: Maximum Score: Question: 1 Multiple Choice 2 Which choice is equivalent to the quotient shown here when x > 0?

$$\sqrt{22}$$
 $\xrightarrow{3}$ \div $\sqrt{1}$ $\xrightarrow{4}$

	Choice	Feedback
Α.	2 <i>x</i>	
В.	$x^2 \sqrt{2}$	
*C.	2 - V - V	Correct!
D.	2 <i>x</i> ²	

Global Incorrect Feedback

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

Question 7a of 14 (3 Dividing Radicals 92163)

Maximum Attempts:	1	
Question Type:	Multiple Choice	
Maximum Score:	2	
Question:	Which choice is equivalent to the quotient shown here when x	0?

	Choice	Feedback
Α.		
В.		
*C.		Correct!
D.		

Global Incorrect Feedback The correct answer is: $\frac{3\sqrt{x}}{4}$.

Question 7b of 14 (3 Dividing Radicals 295323)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the quotient shown here when $x \ge 0$?

√<u>8×</u>:√50

	Choice	Feedback
*A.	$\frac{3\sqrt{x}}{5}$	Correct!
В.	- , 1	
c.	, , <u>×</u> ,∠U	
D.	Villa - En	

Global Incorrect Feedback

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

Question 7c of 14 (3 Dividing Radicals 295325)

Maximum Attempts:1Question Type:Multiple ChoiceMaximum Score:2Question:Which choice is equivalent to the quotient shown here when $x \ge 0$?

$$\sqrt{27 \times} \div \sqrt{48}$$

	Choice	Feedback
Α.		
В.		
C.		
*D.		Correct!

Global Incorrect Feedback

Question 8a of 14 (3 Dividing Radicals 92164)

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

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

	Choice	Feedback
* A .	$\frac{6\sqrt{\times}}{5}$	Correct!
В.	√22×	
c.	6 <u>×</u> 5	
D.	$\sqrt{72x^3-50x^2}$	

Global Incorrect Feed	back
The correct answer is:	$\frac{6\sqrt{\times}}{5}$.

Question 8b of 14 (3 Dividing Radicals 295327)

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

	Choice	Feedback
Α.	$\sqrt{98x^3 - 72x^2}$	
В.	√26 x	
*C.	$\left \sum_{\substack{n \in \mathbb{N} \\ n \in \mathbb{N}}} n \right \leq 1$	Correct!
D.		

$\sqrt{55x^2}$: $\sqrt{2x^2}$

Global Incorrect Feedback

The correct answer is:

Question 8c of 14 (3 Dividing Radicals 295328)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice is equivalent to the quotient shown here when $x > 03$

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	Choice	Feedback
Α.	√°8×	
в.	√50.: ³ - 32 . ²	
c.	5.c 4	
*D.	$\frac{d^{-1}}{4}$	Correct!

Global Incorrect Feedback

The correct answer is:

Question 9a of 14 (1 Dividing Radicals 117792)

True-False

1

2

Maximum Attempts: Question Type: **Maximum Score:**

Question:

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.

	Choice	Feedback
*A.	True	Correct!
В.	False	

Global Incorrect Feedback

The correct answer is: True.

Question 9b of 14 (1 Dividing Radicals 295329)

1

Maximum Attempts: Question Type: Maximum Score: Question:

True-False 2

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.

	Choice	Feedback
*A.	True	Correct!
В.	False	

Global Incorrect Feedback The correct answer is: True.

Question 9c of 14 (1 Dividing Radicals 295330)

Maximum Attempts:
Question Type:
Maximum Score:
Question:

1	
True-False	
2	

	Choice	Feedback
*A.	True	Correct!
В.	False	

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.

Global Incorrect Feedback

The correct answer is: True.

Question 10a of 14 (2 Dividing Radicals 117793)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	For what values of x is the expression below defined?

 $\sqrt{x+3}$

	Choice	Feedback
Α.	<i>x</i> > 3	
*B.	<i>x</i> ≥-3	Correct!
C.	<i>x</i> ≥3	
D.	<i>x</i> ≤ -3	

Global Incorrect Feedback

The correct answer is: $x \ge -3$.

Question 10b of 14 (2 Dividing Radicals 295334)

Maximum Attempts:	1	
Question Type:	Multiple Choice	
Maximum Score:	2	
Question:	For what values of	

 $\sqrt{x+4}$

	Choice	Feedback
Α.	<i>x</i> > 4	
В.	<i>x</i> ≥4	
*C.	<i>x</i> ≥-4	Correct!
D.	<i>x</i> ≤ -4	

Global Incorrect Feedback	
The correct answer is: $x \ge -4$.	

x is the expression below defined?

Question 10c of 14 (2 Dividing Radicals 295335)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	For what values of x is the expression below defined?

	Choice	Feedback
Α.	<i>x</i> > 5	
В.	<i>x</i> -5	
C.	x 5	
*D.	<i>x</i> -5	Correct!

Global Incorrect Feedback

The correct answer is: x -5.

Question 11a of 14 (2 Dividing Radicals 117796)

Iltiple Choice
r what values of x is the expression below defined?

 $\sqrt{1-x}$

	Choice	Feedback
Α.	<i>x</i> > 1	
В.	<i>x</i> > -1	
*C.	$x \leq 1$	Correct!
D.	<i>x</i> < 1	

Global Incorrect Feedback	
The correct answer is: $x \leq 1$.	

Question 11b of 14 (2 Dividing Radicals 295338)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	For what values of x is the expression below defined?

 $\sqrt{2-X}$

	Choice	Feedback
Α.	<i>x</i> > 2	
В.	<i>x</i> > -2	
C.	<i>x</i> < 2	
*D.	<i>x</i> ≤ 2	Correct!

Global Incorrect Feedback	
The correct answer is: $x \leq 2$.	

Question 11c of 14 (2 Dividing Radicals 295339)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	For what values of x is the expression below defined?

	Choice	Feedback
Α.	<i>x</i> > 3	
*В.	x 3	Correct!
C.	<i>x</i> > -3	
D.	<i>x</i> < 3	

Global Incorrect Feedback The correct answer is: *x* 3.

Question 12a of 14 (2 Dividing Radicals 117799)

Maximum Attempts:	1
Ouestion Type:	- Multiple Choice
Maximum Score:	2
Ouestion:	For what values of x is the expression below defined?
-	·
	√x + 3 ÷ √1 - x

Choice
 Feedback

 A.

$$3 > x > 1$$

 B.
 $3 \le x \le 1$

 *C.
 $^{-3} \le x < 1$

 D.
 $3 > x \le -1$

Global Incorrect Feedback

The correct answer is: $-3 \le x < 1$.

Question 12b of 14 (2 Dividing Radicals 295341)

Maximum Attempts:
Question Type:
Maximum Score:
Question:

Multiple Choice
For what values of x is the expression below defined?

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

	Choice	Feedback
*A.	-4≦x< 1	Correct!
В.	$4 \le x \le 1$	
C.	4 > <i>x</i> > 1	
D.	4 > x ≤ - 1	

Global Incorrect Feedback

The correct answer is: -4 x < 1.

Question 12c of 14 (2 Dividing Radicals 295343)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	For what values of x is the expression below defined?

	Choice	Feedback
Α.	5 > <i>x</i> > 1	
В.	5 x 1	
C.	5 > x - 1	
*D.	-5 x < 1	Correct!

Global Incorrect Feedback The correct answer is: $-5 \quad x < 1$.

Question 13a of 14 (2 Dividing Radicals 117801)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	For what values of x is the expression below defined?

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

	Choice	Feedback
Α.	<i>x</i> = 0	
В.	<i>x</i> < 0	
C.	<i>x</i> < 1	
*D.	<i>x</i> > 0	Correct!

Global Incorrect Feedback

The correct answer is: x > 0.

Question 13b of 14 (2 Dividing Radicals 295345)

Maximum Attempts:
Question Type:
Maximum Score:
Question:

1 Multiple Choice 2

For what values of x is the expression below defined?

$$\sqrt{2\pi^2} \div \sqrt{4\pi^2}$$

	Choice	Feedback
Α.	<i>x</i> = 0	
В.	<i>x</i> < 0	
C.	<i>x</i> < 1	
*D.	<i>x</i> > 0	Correct!

Global Incorrect Feedback The correct answer is: x > 0.

Question 13c of 14 (2 Dividing Radicals 295346)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	For what values of x is the expression below defined?

	Choice	Feedback
Α.	<i>x</i> = 0	
В.	<i>x</i> < 0	
C.	<i>x</i> < 1	
*D.	<i>x</i> > 0	Correct!

Global Incorrect Feedback

The correct answer is: x > 0.

Question 14a of 14 (3 Dividing Radicals 117826)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice represents the simplified form of the expression below and the values of x for which it is defined?

•	\sqrt{X}
	÷

	Choice	Feedback	
* A .	$x\sqrt{3}$ when x > 0	Correct!	
в.	$x\sqrt{3}$ when x > 1		
c.	$x\sqrt{3}$ when x < 0		
D.	$x\sqrt{2x}$ when $x > 0$		

Global Incorrect Feedback

The correct answer is: $x\sqrt{3}$ when x > 0.

Question 14b of 14 (3 Dividing Radicals 295348)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice represents the simplified form of the expression below and the values of x for which it is defined?

		·/! x' + •
	Choice	Feedback
Α.	× بن when x < 0	
В.	ິ≺√⊃ when x > 1	
*C.	when x > 0	Correct!
D.	when x > 0	

1	- A		
ωE.	్ర		1.
Υ:	×.	-	¬∎ X

Global Incorrect Feedback		
The correct answer is:	when $x > 0$.	

Question 14c of 14 (3 Dividing Radicals 295350)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	2
Question:	Which choice represents the simplified form of the expression below and the values of x for which it is defined?

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	Choice	Feedback
Α.	्र्भे ^न when x > 1	
*В.	्र् _भ र्रे when x > 0	Correct!
C.	ِ ، َ [:] when x < 0	
D.	$x\sqrt{2x}$ when $x > 0$	

Global Incorrect Feedback

The correct answer is: $\frac{1}{x \cdot t_{\ell}^{2}}$ when x > 0.