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PREVIEW CLOSE

Test (CS): Radical Expressions

Question 1 of 25 (91869)

1
Multiple Choice
3
Which choice is equivalent to the product below?

 $\sqrt{45} \cdot \sqrt{10}$

	Choice	Feedback
Α.	√55	
*В.	15√2	Correct!
C.	8√2	
D.	5√5	

Global Incorrect Feedback The correct answer is: $15\sqrt{2}$.

Question 2 of 25 (295987)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	3
Question:	Which choice is equivalent to the product below?

177 • 17

	Choice	Feedback
Α.	a	
В.		
*C.	5√2	Correct!
D.		

Global Incorrect Feedback	
The correct answer is: .	

Question 3 of 25 (91870)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	3
Correct Answer:	19
Question:	Evaluate the expression below.

Attempt	Incorrect Feedback
1st	

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	Correct Feedback
	Correct!
Global Incorrect Feedback	
	The correct answer is: 19.

Question 4 of 25 (295989)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	3
Correct Answer:	31
Question:	Evaluate the expression below.

. 16 - √5ì (√5 + 6ì

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Correct!
	Global Incorrect Feedback
	The correct answer is: 31.

Question 5 of 25 (91871)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	3
Correct Answer:	10
Question:	Evaluate the expression below.

 $(4 - \sqrt{6})(\sqrt{6} + 4)$

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Correct!
	Global Incorrect Feedback
	The correct answer is: 10.

Question 6 of 25 (295991)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	3
Correct Answer:	8
Question:	Evaluate the expression below.

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Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Correct!
	Global Incorrect Feedback
	The correct answer is: 8.

Question 7 of 25 (138555)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	3
Question:	Which choice is equivalent to the product below?

$$\sqrt{\frac{3}{14}} \bullet \sqrt{\frac{7}{8}}$$

	Choice	Feedback
Α.	$\sqrt{\frac{11}{21}}$	
*В.	$\frac{\sqrt{3}}{4}$	Correct!
C.	$\frac{2\sqrt{3}}{7}$	

Global Incorrect Feedback

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

Question 8 of 25 (138557)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	3
Question:	Which inequality represents all values of <i>x</i> for which the product below is defined?

	Choice	Feedback
Α.	<i>x</i> < 0	
В.	x 0	
*C.	x 2	Correct!
D.	<i>x</i> > 2	

Global Incorrect Feedback

The correct answer is: *x* 2.

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Question 9 of 25 (295997)

1

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Maximum Attempts: Question Type: Maximum Score: Question:

Multiple Choice 3 Which inequality represents all values of *x* for which the product below is defined?

	Choice	Feedback
Α.	<i>x</i> > 3	
*В.	<i>x</i> ≥3	Correct!
C.	$x \ge 0$	
D.	<i>x</i> < 0	

Global Incorrect Feedback

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

Question 10 of 25 (91874)

Maximum Attempts:	1
Question Type:	М
Maximum Score:	3
Question:	W

Multiple Choice 3 Which choice is equivalent to the product below when x > 0?

	Choice	Feedback
Α.	2 <i>x</i>	
в.	$\frac{3}{\sqrt{x^3}}$	
*C.	2√x	Correct!
D.	4-√×	

Global Incorrect Feedback

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

Question 11 of 25 (91875)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	3
Question:	Which choice is equivalent to the product below when $x > 0$?

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	Choice	Feedback
Α.	× 9	
*В.	x 3	Correct!
c.	<u>×</u> γ	

Global Incorrect Feed	back
The correct answer is:	x .

Question 12 of 25 (296001)

Correct!

 $\overline{2}$

÷

γí.

Ņ

В.

C.

Maximum Attempts:1Question Type:Multiple ChoiceMaximum Score:3Question:Which choice is equivalent to the product below when x > 0?

Global	Incorrect	Feedback	

The correct answer is: $\frac{1}{2}$.

Question 13 of 25 (91876)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	3
Question:	Which choice is equivalent to the expression below?

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

Global Incorrect Feedback

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The correct answer is:

Question 14 of 25 (296004)

tiple Choice
ch choice is equivalent to the expression below?

$$\sqrt{3x} = \sqrt{4x} = 4\sqrt{x}$$

	Choice	Feedback
Α.	$\sqrt{10^2 x} + 4 \sqrt{x}$	
* B .	5√×	Correct!
C.	$z\sqrt{2x} = 4\sqrt{x}$	
D.	$ 7 \sqrt{s}$	

Global Incorrect Feedback	
The correct answer is:	5 ₂ /x.

Question 15 of 25 (91877)

oice
ce is equivalent to the expression below?

	Choice	Feedback
Α.	5√3	
в.	5√3-6	
C.	2√3 - √21	
*D.	3√3 + √6	Correct!

Global Incorrect Feedback The correct answer is:

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Question 16 of 25 (91878)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	3
Question:	Which inequality represents all values of x for which the quotient below is defined?

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	Choice	Feedback
Α.	$x \ge -1$	
в.	-1≤x≤ 3	
C.	<i>x</i> ≤ 3	
*D.	-1≤x< 3	Correct!

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

Question 17 of 25 (296008)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	3
Question:	Which inequality represents all values of <i>x</i> for which the quotient below is defined?

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

 $\sqrt{a+1} \div \sqrt{4-z}$

Global Incorrect Feedback The correct answer is: $-1 \le x < 4$.

Question 18 of 25 (91879)

Maximum Attempts:	1	
Question Type:	Multiple Choice	
Maximum Score:	3	
Question:	Which choice is equivalent to the quotient below when -3	<i>x</i> < 3?

	Choice	Feedback
*A.		Correct!
в.		
C.		
D.	1	

Global Incorrect Feedback

The correct answer is:

.

Question 19 of 25 (91880)

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Maximum Attempts: Question Type: Maximum Score: Question:

1 Multiple Choice 3

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

$$\sqrt{6x+27x^3} \div \sqrt{3x}$$

	Choice	Feedback
Α.	√2 +3x	
*В.	$\sqrt{2+9x^2}$	Correct!
C.	$\sqrt{2+27x^3}$	
D.	$\sqrt{3x+27x^3}$	

Global Incorrect Feedback

The correct answer is: $\sqrt{2+9\chi^2}$.

Question 20 of 25 (296013)

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Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	3
Question:	Which choice is equivalent to the quotient below when $x > 0$?

 $\sqrt{6x+27x^3} \div \sqrt{3x}$

		y
	Choice	Feedback
Α.	√2 +3x	
В.	√2∓18 ^{,2}	
*C.	$\sqrt{2+9x^2}$	Correct!
D.	$\sqrt{2x+18x^2}$	

Global Incorrect Feedback

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The correct answer is:

Question 21 of 25 (91881)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	3
Correct Answer:	3
Question:	Rationalize the denominator of the fraction and enter the new denominator below.

4	Attempt	Incorrect Feedback
1	1st	

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Correct Feedback
Correct!
Global Incorrect Feedback
The correct answer is: 3.

Question 22 of 25 (296015)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	3
Correct Answer:	2
Question:	Rationalize the denominator of the fraction and enter the new denominator below.

4 = 17

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

Question 23 of 25 (91882)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	3
Question:	Which choice is equivalent to the fraction below? (<i>Hint: Rationalize the denominator and simplify.</i>)

$$\frac{2-\sqrt{2}}{2+\sqrt{2}}$$

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

Global Incorrect Feedback

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The correct answer is:

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Question 24 of 25 (91883)

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Maximum Attempts: Question Type: Maximum Score: Question:

Multiple Choice 3 Which choice is equivalent to the fraction below? (*Hint: Rationalize the denominator and simplify.*)

$$\frac{2}{\sqrt{x} + \sqrt{x+2}}$$

	Choice	Feedback
Α.	$\sqrt{x} + \sqrt{x+2}$	
в.	$\sqrt{x} - \sqrt{x+2}$	
*C.	$\sqrt{x+2} - \sqrt{x}$	Correct!

Global Incorrect Feedback

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

Question 25 of 25 (296019)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	3
Question:	Which choice is equivalent to the fraction below? (Hint: Rationalize the denominator and simplify.)
	$\frac{2}{1-1-2}$

	Choice	Feedback
* A .	$\sqrt{\pi} \sqrt{2}$	Correct!
в.	$\sqrt{x} - \sqrt{x+2}$	
C.	$\sqrt{x+2} - \sqrt{x}$	

Global Incorrect Feedback	
The correct answer is:	