PREVIEW   CLOSE

Test (CS): Rational Expressions

Question 1 of 25 (91654)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	3
Correct Answer:	20
Question:	Solve the proportion below.

$$\frac{x}{24} = \frac{}{}$$

$x = \underline{\hspace{1cm}}.$

Attempt	Incorrect Feedback
1st	

	Correct Feedback
	Correct!

	Global Incorrect Feedback
	The correct answer is: 20.

Question 2 of 25 (290283)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	3
Correct Answer:	15
Question:	Solve the proportion below.

$$\frac{x}{25} = \frac{}{}$$

$x = \underline{\hspace{1cm}}.$

Attempt	Incorrect Feedback
1st	

	Correct Feedback
	Correct!

	Global Incorrect Feedback
	The correct answer is: 15.

Question 3 of 25 (290284)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	3
Correct Answer:	21
Question:	Solve the proportion below.

$x = \underline{\hspace{1cm}}.$

Attempt	Incorrect Feedback
1st	

	Correct Feedback
	Correct!

	Global Incorrect Feedback
	The correct answer is: 21.

Question 4 of 25 (91655)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	3
Correct Answer:	18
Question:	Solve the proportion below.

$$\frac{9}{x} = \frac{\cdot}{2}$$

$$x = \underline{\hspace{1cm}}.$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback
	Correct!

	Global Incorrect Feedback
	The correct answer is: 18.

Question 5 of 25 (290285)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	3
Correct Answer:	20
Question:	Solve the proportion below.

$$\frac{5}{\cdot} = \frac{1}{2}$$

$$x = \underline{\hspace{1cm}}.$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback
	Correct!

	Global Incorrect Feedback
	The correct answer is: 20.

Question 6 of 25 (290286)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	3
Correct Answer:	12
Question:	Solve the proportion below.

$$x = \underline{\hspace{1cm}}.$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback
	Correct!

	Global Incorrect Feedback
	The correct answer is: 12.

Question 7 of 25 (91656)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	3
Correct Answer:	16.19
Question:	Solve for *w*, assuming that the two rectangles below have the same proportions. Round your answer to two decimal places.

w = _____.
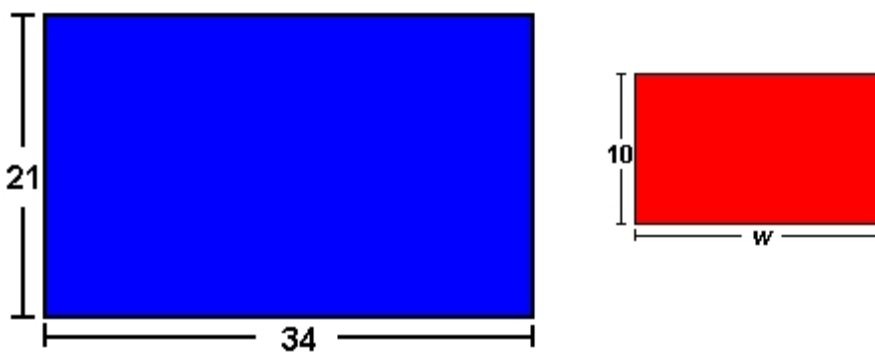
Attempt	Incorrect Feedback
1st	

	Correct Feedback
	Correct!

	Global Incorrect Feedback
	The correct answer is: 16.19.

Question 8 of 25 (290287)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	3
Correct Answer:	11.33
Question:	Solve for *w*, assuming that the two rectangles below have the same proportions. Round your answer to two decimal places.

w = _____.

Attempt	Incorrect Feedback
1st	

	Correct Feedback
	Correct!

	Global Incorrect Feedback
	The correct answer is: 11.33.

Question 9 of 25 (290289)

Maximum Attempts:	1
Question Type:	Numeric Fill In Blank
Maximum Score:	3
Correct Answer:	4.86
Question:	Solve for *w*, assuming that the two rectangles below have the same proportions. Round your answer to two decimal places.

$w = \underline{\hspace{1cm}}$.
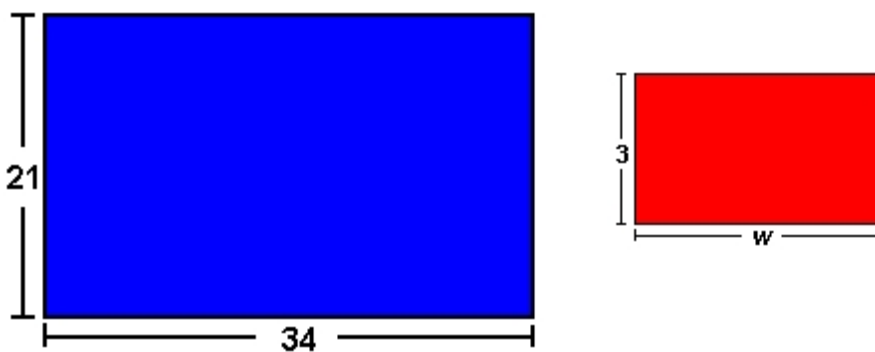
Attempt	Incorrect Feedback
1st	

	Correct Feedback
	Correct!

	Global Incorrect Feedback
	The correct answer is: 4.86.

Question 10 of 25 (91657)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	3
Question:	For which value(s) of *x* will the rational expression below equal zero? *Check all that apply.*

Correct Answers:

	Choice
A.	-1
B.	1
***C.**	-2
D.	2
E.	-5
***F.**	5

Attempt	Incorrect Feedback
1st	

	Correct Feedback
	Correct!

	Global Incorrect Feedback
	The correct answers are: -2 and 5.

Question 11 of 25 (290290)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	3
Question:	For which value(s) of x will the rational expression below equal zero? *Check all that apply.*

$$\frac{(x-1)(x-5)}{x-5}$$

Correct Answers:

	Choice
A.	5
*B.	-5
C.	-1
*D.	1
E.	6
F.	0

Attempt	Incorrect Feedback
1st	

	Correct Feedback
	Correct!

	Global Incorrect Feedback
	The correct answers are: -5 and 1.

Question 12 of 25 (290291)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	3
Question:	For which value(s) of x will the rational expression below equal zero? *Check all that apply.*

Correct Answers:

	Choice
*A.	3
B.	-3
*C.	-6
D.	6
E.	-7
F.	7

Attempt	Incorrect Feedback
1st	

	Correct Feedback
	Correct!

	Global Incorrect Feedback
	The correct answers are: 3 and -6.

Question 13 of 25 (91658)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	3
Question:	For which value(s) of *x* will the rational expression below be undefined? *Check all that apply.*

$$\frac{(x-5)(x+2)}{x+1}$$

Correct Answers:

	Choice
*A.	-1
B.	1
C.	-2
D.	2
E.	-5
F.	5

Attempt	Incorrect Feedback
1st	

	Correct Feedback
	Correct!

	Global Incorrect Feedback
	The correct answer is: -1.

Question 14 of 25 (290292)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	3
Question:	For which value(s) of *x* will the rational expression below be undefined? *Check all that apply.*

Correct Answers:

	Choice
A.	-6
B.	6
C.	-3
D.	3
*E.	-7
F.	7

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: -7.

Question 15 of 25 (290293)

Maximum Attempts:	1
Question Type:	Multiple Response
Maximum Score:	3
Question:	For which value(s) of *x* will the rational expression below be undefined? *Check all that apply.*

$$\frac{x-5}{(x+7)(x-7)}$$

Correct Answers:

	Choice
A.	-5
B.	5
*C.	-7
D.	7
*E.	-1
F.	1

Attempt	Incorrect Feedback
1st	

	Correct Feedback
	Correct!

	Global Incorrect Feedback
	The correct answer is: -7 and -1.

Question 16 of 25 (91659)

Maximum Attempts:	1
Question Type:	Multiple Choice
Maximum Score:	3
Question:	Which of the following is equal to the rational expression when *x* 2 or -3?

	Choice	Feedback
A.		
B.		
*C.		Correct!

Global Incorrect Feedback
The correct answer is: $\dfrac{x+1}{x+3}$.

Question 17 of 25 (290294)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 3

Question: Which of the following is equal to the rational expression when $x \neq$ -1 or -7?

$$\frac{(x+1)(x-1)}{(x+7)(x-1)}$$

	Choice	Feedback
A.	$\dfrac{x}{x-7}$	
*B.	$\dfrac{x}{x-7}$	Correct!
C.	$\dfrac{x-1}{x}$	

Global Incorrect Feedback
The correct answer is: $\dfrac{x}{x+7}$.

Question 18 of 25 (290295)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 3

Question: Which of the following is equal to the rational expression when $x \neq$ 2 or 1?

$$\frac{(x-1)(x-5)}{(x-2)(x-1)}$$

	Choice	Feedback
*A.		Correct!
B.		
C.		

Global Incorrect Feedback
The correct answer is: .

Question 19 of 25 (91660)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 3

Question: Which of the following is equal to the rational expression when x -2 or -1?

	Choice	Feedback
A.	$\dfrac{x+2}{x+1}$	
B.	$\dfrac{x^2-4}{x+1}$	
*C.	$\dfrac{x-2}{x+1}$	Correct!

Global Incorrect Feedback
The correct answer is: $\dfrac{x-2}{x+1}$.

Question 20 of 25 (290296)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 3
Question: Which of the following is equal to the rational expression when $x \neq 1$ or 3?

$$\frac{x-3}{(x-1)(x-3)}$$

	Choice	Feedback
*A.	$\dfrac{x-3}{x}$	Correct!
B.	$\dfrac{x-1}{x-3}$	
C.	$\dfrac{x-3}{x-1}$	

Global Incorrect Feedback
The correct answer is: $\dfrac{x+3}{x-1}$.

Question 21 of 25 (290297)

Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score: 3
Question: Which of the following is equal to the rational expression when x -4 or 16?

	Choice	Feedback
A.		
*B.		Correct!
C.		

Global Incorrect Feedback
The correct answer is: .

Question 22 of 25 (485903)

Maximum Attempts: 1

Question Type: Numeric Fill In Blank

Maximum Score: 3

Correct Answer: 0

Question: Solve the equation for *x*.

$$\frac{3x+2}{4} = \frac{5x+1}{2}$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 0.

Question 23 of 25 (485904)

Maximum Attempts: 1

Question Type: Numeric Fill In Blank

Maximum Score: 3

Correct Answer: 4

Question: Solve the equation for *x*.

$$\frac{3x+2}{2} = \frac{5x+1}{3}$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 4.

Question 24 of 25 (485905)

Maximum Attempts: 1

Question Type: Numeric Fill In Blank

Maximum Score: 3

Correct Answer: 17

Question: Solve the equation for *x*.

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 17.

Question 25 of 25 (485906)

Maximum Attempts: 1

Question Type: Numeric Fill In Blank

Maximum Score: 3

Correct Answer: 19

Question: Solve the equation for *x*.

$$\frac{x+2}{3} = \frac{4x+1}{11}$$

Attempt	Incorrect Feedback
1st	

	Correct Feedback

	Global Incorrect Feedback
	The correct answer is: 19.