PREVIEW

CLOSE

Quiz: Simplifying Rational Expressions

Question 1a of 8 (3 reducing a fraction 91550)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score:2Is Case Sensitive:falseCorrect Answer:3/5

Question: Reduce the fraction below. Use the slash (/) as a fraction bar.

15 25

Attempt	Incorrect Feedback	
1st		
	Correct Feedback	
	Correct!	
	Global Incorrect Feedback	

Question 1b of 8 (3 reducing a fraction 289407)

Maximum Attempts: 1

Question Type: Text Fill In Blank

The correct answer is: 3/5.

Maximum Score:2Is Case Sensitive:falseCorrect Answer:4/5

Question: Reduce the fraction below. Use the slash (/) as a fraction bar.

24 50

Attempt	Incorrect Feedback	
1st		
	Correct Feedback	
	Correct!	
	Global Incorrect Feedback	
	Global Illcollect Leeuback	
	The correct answer is: 4/5.	

Question 1c of 8 (3 reducing a fraction 289409)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score:2Is Case Sensitive:falseCorrect Answer:2/7

Question: Reduce the fraction below. Use the slash (/) as a fraction bar.

Attempt	Incorrect Feedback	
1st		
	Correct Feedback	
	Correct!	
Global Incorrect Feedback		
	The correct answer is: 2/7.	

Question 2a of 8 (3 reducing a fraction 91551)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score:2Is Case Sensitive:falseCorrect Answer:1/4

Question: Reduce the fraction below. Use the slash (/) as a fraction bar.

 $\frac{6}{24}$

Attempt	Incorrect Feedback		
1st			
	Correct Feedback		
	Correct!		
	Global Incorrect Feedback		
	The correct answer is: 1/4.		

Question 2b of 8 (3 reducing a fraction 289410)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score:2Is Case Sensitive:falseCorrect Answer:1/6

Question: Reduce the fraction below. Use the slash (/) as a fraction bar.

Attempt	Incorrect Feedback	
1st		
	Correct Feedback	
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: 1/6.	

Question 2c of 8 (3 reducing a fraction 289411)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score:2Is Case Sensitive:falseCorrect Answer:1/3

Question: Reduce the fraction below. Use the slash (/) as a fraction bar.

5 '5

Attempt	Incorrect Feedback
1st	

Correct Feedback
Correct!

Global Incorrect Feedback
The correct answer is: 1/3.

Question 3a of 8 (2 reducing a rational expression 91552)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which of the following is equal to the rational expression when $x \neq -2$ or -6?

$$\frac{3(x+2)}{(x+6)(x+2)}$$

	Choice	Feedback
A.	$\frac{1}{x+2}$	
В.	$\frac{3}{x+2}$	
*C.	$\frac{3}{x+6}$	Correct!
D.	$\frac{1}{x+6}$	

Global Incorrect Feedback

The correct answer is:

Question 3b of 8 (2 reducing a rational expression 289412)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which of the following is equal to the rational expression when x = 2 or -4?

	Choice	Feedback
*A.	$\frac{5}{x+4}$	Correct!
В.	· ~	
c.	50 ± 10 ± 10 ±	
D.	× – 4	

Global Incorrect Feedback

The correct answer is: $\frac{5}{8+4}$

Question 3c of 8 (2 reducing a rational expression 289432)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

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

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

	Choice	Feedback
A.	<u>5</u> ×-`	
В.	5 (x 1)(x 1)	
c.	5(x + 1) x + 1	
*D.	5 ×+ '	

Global Incorrect Feedback

The correct answer is: . .

Question 4a of 8 (2 reducing a rational expression 91553)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which of the following is equal to the rational expression when x = 3 or -10?

	Choice	Feedback
*A.	$\frac{x+10}{x+6}$	Correct!
В.	$\frac{x+5}{x-3}$	
c.	$\frac{x-3}{x+10}$	
D.	$\frac{x-3}{x+5}$	

Global Incorrect Feedback

The correct answer is: $\frac{x+f}{x+f0}$.

Question 4b of 8 (2 reducing a rational expression 289414)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which of the following is equal to the rational expression when $x \neq 5$ or -1?

$$\frac{(x-7)(x+1)}{(x+1)(x-5)}$$

	Choice	Feedback
A.	$\frac{x-7}{x+1}$	
В.	* 	
c.	$\frac{x+1}{x-7}$	
*D.	$\frac{x-7}{x-5}$	Correct!

Global Incorrect Feedback

The correct answer is:

Question 4c of 8 (2 reducing a rational expression 289415)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which of the following is equal to the rational expression when x = 4 or -9?

	Choice	Feedback
*A.	<u>x + 11</u> + + €	Correct!
В.	$\frac{x+11}{x-4}$	
c.	x 4 ∀+∃	
D.	$\frac{x-4}{x+1}$	

Global Incorrect Feedback

The correct answer is: $\frac{x+11}{x+9}$.

Question 5a of 8 (3 reducing a rational expression 91554)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which of the following is equal to the rational expression when $x \neq 5$?

$$\frac{x^2 - 25}{x - 5}$$

	Choice	Feedback
A.	<u>x+5</u> x-5	
В.	<i>x</i> - 5	
c.	1 x+5	
*D.	<i>x</i> + 5	Correct!

Global Incorrect Feedback

The correct answer is: x + 5.

Question 5b of 8 (3 reducing a rational expression 289416)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which of the following is equal to the rational expression when x -3?

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

Global Incorrect Feedback

The correct answer is: ...

Question 5c of 8 (3 reducing a rational expression 289417)

Maximum Attempts:

Multiple Choice **Question Type:**

Maximum Score:

Question: Which of the following is equal to the rational expression when $x \neq -6$?

$$x + 6$$

	Choice	Feedback
Α.	x วิ	
B.	: + 6	
*C.	а б	Correct!
D.	x² = 6	

Global Incorrect Feedback

The correct answer is: $x - f_1$.

Question 6a of 8 (3 reducing a rational expression 91555)

Maximum Attempts:

Multiple Choice **Question Type:**

Maximum Score:

Question: Which of the following is equal to the rational expression when $x \neq -2$ or 3?

$$\frac{x^2 + 5x + 6}{x^2 - x - 6}$$

	Choice	Feedback
A.	$\frac{x+2}{x-3}$	
В.		
c.		
*D.		Correct!

Global Incorrect Feedback

The correct answer is:

Question 6b of 8 (3 reducing a rational expression 289418)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which of the following is equal to the rational expression when $x \neq -4$ or 3?

$$\frac{x^2 - 4x + 3}{x^2 + 4}$$

	Choice	Feedback
Α.	и н и н	
*B.	.: ×+ 4	Correct!
c.	$\frac{8 + 7}{8 + 4}$	
D.	$\frac{x-3}{x+1}$	

Global Incorrect Feedback

The correct answer is: $\frac{x-1}{x+4}$

Question 6c of 8 (3 reducing a rational expression 289419)

Maximum Attempts: 1

Question Type: Multiple Choice

Maximum Score: 2

Question: Which of the following is equal to the rational expression when $x \neq 5$ or -3?

$$x^2 + x = 6$$
$$x^2 - 2x - 15$$

	Choice	Feedback
*A.	71 F + + + + +	Correct!
В.		
c.		
D.		

Global Incorrect Feedback

The correct answer is: .

Question 7a of	8 (1	reducing a	rational	expression	135071
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Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score:2Is Case Sensitive:falseCorrect Answer:factor

Question: Reducing rational expressions is a lot like reducing numerical fractions; you

first need to _____ the numerator and denominator.

Attempt	Incorrect Feedback
1st	
	Correct Feedback
	Correct!

Global Incorrect Feedback
The correct answer is: factor.

Question 7b of 8 (1 reducing a rational expression 289420)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score: 2
Is Case Sensitive: false

Correct Answer: numerator, numerater

Question: The first step in reducing a rational expression is to factor both its _____ and

denominator.

Attempt	Incorrect Feedback
1st	

Correct Feedback
Correct!

Global Incorrect Feedback
The correct answer is: numerator.

Question 7c of 8 (1 reducing a rational expression 289421)

Maximum Attempts: 1

Question Type: Text Fill In Blank

Maximum Score:2Is Case Sensitive:falseCorrect Answer:factor

Question: The first step in reducing a rational expression is to _____ both the

numerator and denominator.

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

Question 8a of 8 (3 reducing a rational expression 135072)

Maximum Attempts: 1

Question Type: Numeric Fill In Blank

Maximum Score: 2
Correct Answer: -1

Question: If the common factor (x + 1) is divided out of the original expression, the

reduced expression will be equal to the original expression only when x does

not equal _____.

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

Question 8b of 8 (3 reducing a rational expression 289422)

Maximum Attempts: 1

Question Type: Numeric Fill In Blank

Maximum Score: 2
Correct Answer: -6

Question: If the common factor (x + 6) is divided out of the original expression, the

reduced expression will be equal to the original expression only when x does

not equal _____.

Attempt	Incorrect Feedback	
1st		
	Cownest Foodback	
	Correct Feedback	
	Correct!	
	Global Incorrect Feedback	
	The correct answer is: -6.	

Question 8c of 8 (3 reducing a rational expression 289423)

Maximum Attempts: 1

Question Type: Numeric Fill In Blank

Maximum Score: 2
Correct Answer: 2

Question: If the common factor (x - 2) is divided out of the original expression, the

reduced expression will be equal to the original expression only when x does

not equal _____.

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