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**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		
	The correct answer is: 3/5.		

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

Maximum Attempts: 1

Question Type: Text Fill In Blank

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

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

24 50

Atte	mpt	Incorrect Feedback	
1st			
		Correct Feedback	
		Correct!	
_			
		Global Incorrect Feedback	
		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.

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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.

 $\frac{6}{24}$ 

Incorrect Feedback
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.		

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# 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
С	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
Α.	$\frac{1}{x+2}$	
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?

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	Choice	Feedback
*A.	$\frac{5}{x+4}$	Correct!
В.	x 2	
C.	ж Т О Р.	
D.	× – 4	

**Global Incorrect Feedback** 

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

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
Α.	<u>5</u> ×-`	
В.	5 (x 1)(x 1)	
c.	5(x + 1) x + 1	
*D.	<del>5</del> × + '	

**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?

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	Choice	Feedback
*A.	$\frac{x+6}{x+10}$	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:  $\frac{x+C}{x+C}$ .

## 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.	$\frac{x+1}{x-\xi}$	
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?

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	Choice	Feedback
*A.	± + 11 € + 3	Correct!
В.	x + 11 x = 4	
c.	x 4 ∀+∃	
D.	$\frac{x-4}{x+1}$	

### **Global Incorrect Feedback**

The correct answer is:

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

**Maximum Attempts:** 

Multiple Choice **Question Type:** 

**Maximum Score:** 

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

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

	Choice	Feedback
A.	$\frac{x+5}{x-5}$	
В.	<i>x</i> - 5	
c.	$\frac{1}{x+5}$	
*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:** 

Multiple Choice **Question Type:** 

**Maximum Score:** 

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

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

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**Global Incorrect Feedback** 

The correct answer is:  $3 - \frac{\pi}{2}$ .

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

Maximum Attempts: 1

**Question Type:** Multiple Choice

**Maximum Score:** 2

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

$-\infty + 1$	)

	Choice	Feedback
A.	· x ก	
В.	: + 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: 1

**Question Type:** Multiple Choice

Maximum Score: 2

**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:

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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?

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

	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:  $\frac{x-x}{x+4}$ 

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: .

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### Question 7a of 8 (1 reducing a rational expression 135071)

**Maximum Attempts:** 

**Question Type:** Text Fill In Blank

**Maximum Score:** 2 Is Case Sensitive: false **Correct 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:** 

**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:** 

Text Fill In Blank **Question Type:** 

**Maximum Score:** 2 Is Case Sensitive: false **Correct Answer:** factor

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

numerator and denominator.

Incorrect Feedback
Correct Feedback

Global Incorrect Feedback
Correct!

Global Incorrect Feedback
The correct answer is: factor.

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### 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

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

Maximum Attempts: 1

**Question Type:** Numeric Fill In Blank

The correct answer is: -1.

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	
	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