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Alg

Quiz: Simplifying Rational Expressions

Question 1a of 8 ( 3 reducing a fraction 91550 )
Maximum Attempts: 1
Question Type: Text Fill In Blank
Maximum Score: 2
Is Case Sensitive: false
Correct Answer: 3/5
Question: Reduce the fraction below. Use the slash (/) as a fraction bar.
$\frac{15}{25}$

| Attempt | Incorrect Feedback |
| :--- | :--- |
| 1 st |  |


|  | 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: 2
Is Case Sensitive: false
Correct Answer: 4/5
Question: $\quad$ Reduce the fraction below. Use the slash ( / ) as a fraction bar.
$-4$

| Attempt | 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: 2
Is Case Sensitive: false
Correct Answer: 2/7
Question: Reduce the fraction below. Use the slash ( / ) as a fraction bar.

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| Attempt | Incorrect Feedback |
| :--- | :--- |
| 1 st |  |


|  | 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:
Maximum Score: Text Fill In Blank

Is Case Sensitive: 2 Correct Answer: false 1/4 Question: Reduce the fraction below. Use the slash ( / ) as a fraction bar.

$$
\frac{6}{24}
$$

| Attempt | Incorrect Feedback |
| :--- | :--- |
| 1 st |  |


|  | Correct Feedback |
| :--- | :--- |
|  | Correct! |


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: $1 / 4$. |

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

Maximum Attempts:
Question Type:
Maximum Score:
Is Case Sensitive:
Correct Answer:
Question:

1
Text Fill In Blank
2
false
1/6
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:
Maximum Score:
Is Case Sensitive: Correct Answer: Question:

1
Text Fill In Blank
2
false
1/3
Reduce the fraction below. Use the slash ( / ) as a fraction bar.
5
'っ

| Attempt | Incorrect Feedback |
| :--- | :--- |
| 1 st |  |


|  | Correct Feedback |
| :--- | :--- |
|  | Correct! |


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

Question 3a of $\mathbf{8}$ ( 2 reducing a rational expression 91552 )
Maximum Attempts: 1

Question Type:
Maximum Score:
Question:

Multiple Choice
2
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. | $\frac{1}{x+2}$ |  |
| B. | $\frac{3}{x+2}$ |  |
| *C. | $\frac{3}{x+6}$ | Correct! |
| D. | $\frac{1}{x+6}$ |  |



Question $\mathbf{3 b}$ of $\mathbf{8}$ ( 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 $x \quad 2$ or $-4 ?$ |

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|  | Choice | Feedback |
| :---: | :---: | :---: |
| $* A$. | $\frac{\vdots}{x+4}$ | Correct! |
| B. | $\boxed{ }$ |  |
| C. | $\vdots$ |  |
| D. | $\vdots-4$ |  |

## Global Incorrect Feedback

The correct answer is: $\quad=+4$

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

Maximum Attempts:
Question Type:
Maximum Score:
Question:

1
Multiple Choice
2
Which of the following is equal to the rational expression when $x \neq 1$ or -1 ?

$$
\frac{5(x-i}{1+\cdots-1}
$$

|  | Choice | Feedback |
| :---: | :---: | :---: |
| A. | $\frac{5}{8-}$ |  |
| B. | $\frac{5}{4 \times 1 i i x}$ |  |
| C. | $\begin{gathered} x x- \\ y-1 \end{gathered}$ |  |
| *D. | $\frac{5}{x-}$ |  |

Global Incorrect Feedback

The correct answer is:

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

```
Maximum Attempts:
Question Type:
Maximum Score:
1
2
Question:
Multiple Choice
2
Which of the following is equal to the rational expression when \(x \quad 3\) or -10 ?
```


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|  | Choice | Feedback |
| :--- | :--- | :--- |
| *A. | $\frac{\because+}{x+}$ | Correct! |
| B. | $\frac{x+5}{x-3}$ |  |
| C. | $\frac{x-3}{x+10}$ |  |
| D. | $\frac{x-3}{x+5}$ |  |

Global Incorrect Feedback
The correct answer is: $\frac{+!}{+1}$.

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

Maximum Attempts:
Question Type: Maximum Score: Question:

1
Multiple Choice
2
Which of the following is equal to the rational expression when $x \neq 5$ or -1 ?

|  | Choice | Feedback |
| :---: | :---: | :---: |
| A. | $\frac{\therefore-3}{\square+1}$ |  |
| B. | $\frac{\square+1}{\square}$ |  |
| C. | $\frac{x+1}{x-7}$ |  |
| *D. | $\frac{x-7}{\square}$ | Correct! |

Global Incorrect Feedback
The correct answer is:

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

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

Multiple Choice
Which of the following is equal to the rational expression when $x \quad 4$ or -9?

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|  | Choice | Feedback |
| :---: | :---: | :---: |
| *A. | $\frac{\therefore+11}{\square+7}$ | Correct! |
| B. | $x+11$ $y:$ |  |
| C. | $x$ 4 $x+z$ |  |
| D. | $\frac{x-4}{x+1}$ |  |


| Global Incorrect Feedback |
| :--- |
| The correct answer is: $\frac{x+11}{\square+9}$. |

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

Maximum Attempts:
Question Type:
Maximum Score:
Question: 1
Multiple Choice
2
Which of the following is equal to the rational expression when $x \neq 5$ ?

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

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | $\frac{x+5}{x-5}$ |  |
| B. | $x-5$ |  |
| C. | $\frac{1}{x+5}$ |  |
| *D. | $x+5$ | Correct! |

Global Incorrect Feedback
The correct answer is: $x+5$.

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

Maximum Attempts: $\quad 1$
Question Type:
Maximum Score:
Question:

1
Multiple Choice
2
Which of the following is equal to the rational expression when $x \quad-3$ ?

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. |  |  |
| *B. |  | Correct! |
| C. |  |  |
| D. |  |  |

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Alg
Global Incorrect Feedback
The correct answer is: . =

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

Maximum Attempts: Question Type: Maximum Score: Question:

1 Multiple Choice 2
Which of the following is equal to the rational expression when $x \neq-6$ ?
$x^{2}$. 3
$=-6$

|  | Choice | Feedback |
| :--- | :---: | :--- |
| A. | $\frac{\square}{x}$ |  |
| B. | $\ddots \downarrow b$ |  |
| $*$ C. | $\therefore \quad দ$ | Correct! |
| D. | $\therefore-b$ |  |


| Global Incorrect Feedback |
| :--- |
| The correct answer is: $x-\overline{1}$. |

Question 6a of 8 ( 3 reducing a rational expression 91555 )
Maximum Attempts: 1
Question Type: Multiple Choice
Maximum Score:
Question:
2
Which of the following is equal to the rational expression when $x \neq-2$ or 3 ?
$\frac{x^{2}+5 x+6}{x^{2}-x-6}$

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | $\frac{x+2}{x-3}$ |  |
| B. |  |  |
| C. |  |  |
| *D. |  | Correct! |


| Global Incorrect Feedback |
| :--- | :--- |
| The correct answer is: $\quad$. |

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Question 6b of 8 ( 3 reducing a rational expression 289418 )
Maximum Attempts: 1
Question Type:
Maximum Score:
Question:

Multiple Choice
2
Which of the following is equal to the rational expression when $x \neq-4$ or 3 ?

|  | Choice | Feedback |
| :--- | :--- | :--- |
| A. | $\ddots$ |  |
| *B. | $\vdots+4$ | Correct! |
| C. | $\frac{\because+}{x+4}$ |  |
| D. | $\frac{\because-3}{x+}$ |  |


| Global Incorrect Feedback |
| :--- |
| The correct answer is: $\frac{\because-}{x+4}$. |

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

Maximum Attempts: 1
Question Type:
Maximum Score: Question:

1

2

Multiple Choice

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

$$
\begin{gathered}
x+x \quad \overline{1} \\
x^{2}-2 x-5
\end{gathered}
$$



| Global Incorrect Feedback |
| :--- |
| The correct answer is:. |

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Question 7a of 8 ( 1 reducing a rational expression 135071)
Maximum Attempts: 1
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 $\qquad$ the numerator and denominator.

| Attempt | Incorrect Feedback |
| :--- | :--- |
| 1 st |  |


|  | 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:
Maximum Score:
Is Case Sensitive:
Correct Answer:
Question:
1

2

Text Fill In Blank
false
numerator, numerater
The first step in reducing a rational expression is to factor both its $\qquad$ and denominator.

| Attempt | Incorrect Feedback |
| :--- | :--- |
| 1 st |  |


|  | Correct Feedback |
| :--- | :--- |
|  | Correct! |


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: numerator. |

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

| Question Type: | 1 |
| :--- | :--- |
| Maximum Score: | Text Fill In Blank |
| Is Case Sensitive: | 2 |
| false |  |
| Correct Answer: | factor <br> The first step in reducing a rational expression is to ____ buestion: <br> numerator and denominator. |
| Attempt Incorrect Feedback <br> 1 st  <br>  Correct Feedback <br>  Correct! <br>  Global Incorrect Feedback <br>  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 $\qquad$

| 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:
Maximum Score:
Correct Answer:
Question:
Numeric Fill In Blank
2
-6
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 $\qquad$

| Attempt | Incorrect Feedback |
| :--- | :--- |
| 1 st |  |


|  | Correct Feedback |
| :--- | :--- |
|  | Correct! |


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: -6. |

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

Maximum Attempts:
Question Type:
Maximum Score:
Correct Answer:
Question:

1
Numeric Fill In Blank
2
2
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 $\qquad$ -.

| Attempt | Incorrect Feedback |
| :--- | :--- |
| 1 st |  |


|  | Correct Feedback |
| :--- | :--- |
|  | Correct! |


|  | Global Incorrect Feedback |
| :--- | :--- |
|  | The correct answer is: 2. |

