



Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

1 **Divide** the rational numbers and simplify to lowest terms:

$\frac{6}{7} \div \frac{9}{x} =$

A  $\frac{54}{7x}$       C  $\frac{7x}{54}$   
 B  $\frac{63}{6x}$       D  $\frac{2x}{21}$

2 **Divide** the rational numbers and simplify to lowest terms:

$\frac{4x}{5} \div \frac{8x}{9} =$

A  $\frac{9}{10}$       C  $\frac{36x}{45x}$   
 B  $\frac{32x}{45}$       D  $\frac{9x}{10}$

3 Solve the equation for  $x$ :

$x - \frac{3}{18} = \frac{7}{18}$

4 Solve the equation for  $x$ :

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

5



## PREVIEW

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7

$x + 0.4 \geq -5.6$

- A  $x \leq -6$
- B  $x \geq -6$
- C  $x \geq -5.2$
- D  $x \geq -5.2$

$x - \frac{3}{6} < \frac{5}{6}$

- A  $x < \frac{1}{3}$
- B  $x > \frac{1}{3}$
- C  $x < 1\frac{1}{3}$
- D  $x > 1\frac{1}{3}$

9

Solve the inequality for  $x$ :

$\frac{-3}{4x} > 12$

- A  $x > -9$
- B  $x < -9$
- C  $x > -16$
- D  $x < -16$

10

Solve the inequality for  $x$ :

$\frac{x}{7} \leq -14$

- A  $x \leq -98$
- B  $x \leq -91$
- C  $x \geq -98$
- D  $x \geq -91$



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