



Name _____ Class _____ Date _____

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

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

- 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:

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

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

3 Solve the equation for x :

$$x - \frac{3}{12} = \frac{7}{12}$$

4 Solve the equation for x :

$$x + \frac{3}{7} = \frac{-5}{7}$$

5



PREVIEW

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7

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

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