

Rational numbers and operations



Name Class Date



Divide the rational numbers and simplify to lowest terms:

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



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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** $\frac{9x}{10}$



Solve the equation for x:

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



Solve the equation for x:

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



PREVIEW



Please <u>Sign In</u> or <u>Sign Up</u> to download the printable version of this worksheet

- **B** $x \ge -6$
- **C** $x \le -5.2$
- **D** $x \ge -5.2$

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



Solve the inequality for x:



- **A** x > -9
- **B** x < -9
- Cx > -16
- **D** x < -16

10

Solve the inequality for x:

<u>X</u> ≤ -14

- **A** $x \le -98$
- **B** $x \le -91$
- **C** $x \ge -98$
- **D** $x \ge -91$



Rational numbers and operations



Class Name Date

D

B

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V	ш	
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Divide the rational numbers and simplify

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





Divide the rational numbers and simplify

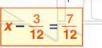
$$\frac{4x}{5} \div \frac{8x}{9} =$$







Solve the equation for x:





Solve the equation for x:

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









 (\mathbf{C})

PREVIEW



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- **C** $x \le -5.2$
- **D** $x \ge -5.2$

- **A** $x < \frac{1}{3}$

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Solve the inequality for x:



- **A** x > -9
- **B** x < -9
- C x > -16
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Solve the inequality for x:



- **A** $x \le -98$
- **B** $x \le -91$
- **C** $x \ge -98$
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