



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

1 Add the rational numbers:

$$\frac{8x}{6} + \frac{4x}{6} = \square$$

A  $\frac{13x}{6}$  C  $2x$

B  $\frac{11x}{6}$  D  $x$

3 Add the rational numbers:

$$\frac{5}{x} + \frac{3}{4} = \square$$

A  $\frac{20 + 3x}{4x}$  C  $\frac{8x}{4x}$

2 Add the rational numbers:

$$\frac{3}{9x} + \frac{5}{9x} = \square$$

A  $\frac{8}{18x}$  C  $\frac{2}{9x}$

B  $\frac{2}{18x}$  D  $\frac{8}{9x}$

4 Subtract the rational numbers:

$$\frac{7x}{12} - \frac{6x}{12} = \square$$

A  $12x$  C  $x$



## PREVIEW

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A  $-\frac{70}{88}$  C  $\frac{77}{80}$

B  $-\frac{77}{80}$  D  $\frac{70}{88}$

9 Multiply the rational numbers and simplify to lowest terms:

$$\left(-\frac{3}{7}\right)\left(\frac{4x}{6}\right) = \square$$

A  $-\frac{x}{4}$  C  $-\frac{2x}{7}$

B  $\frac{x}{4}$  D  $\frac{2x}{7}$

A  $3y$  C  $\frac{y}{9}$

B  $4y$  D  $\frac{54y}{12}$

10 Jared divided  $\frac{5}{6} \div \frac{5}{8}$ . His answer of  $\frac{6}{8}$  is correct.

True or false?

- A true
- B false



## ANSWER KEY

Add the rational numbers:

$$\frac{8x}{6} + \frac{4x}{6} = \square$$

A  $\frac{13x}{6}$                       C  $2x$

B  $\frac{11x}{6}$                       D  $x$

Add the rational numbers:

$$\frac{5}{x} + \frac{3}{4} = \square$$

A  $\frac{20 + 3x}{4x}$                       C  $\frac{8x}{4x}$

B  $\frac{8}{x}$                       D  $5x + 12$

Add the rational numbers:

$$\frac{3}{9x} + \frac{5}{9x} = \square$$

A  $\frac{8}{18x}$                       C  $\frac{2}{9x}$

B  $\frac{2}{18x}$                       D  $\frac{8}{9x}$

Subtract the rational numbers:

$$\frac{7x}{12} - \frac{6x}{12} = \square$$

A  $12x$                       C  $x$

B  $\frac{x}{12}$                       D  $\frac{x}{6}$

S  
-  
3  
A  
E  
M  
(



## PREVIEW

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A  $\frac{88}{80}$                       C  $\frac{80}{80}$

B  $\frac{-77}{80}$                       D  $\frac{70}{88}$

Multiply the rational numbers and simplify to lowest terms:

$$\left(\frac{-3}{7}\right)\left(\frac{4x}{6}\right) = \square$$

A  $\frac{-x}{4}$                       C  $\frac{-2x}{7}$

B  $\frac{x}{4}$                       D  $\frac{2x}{7}$

A  $3y$                       C  $\frac{y}{9}$

B  $4y$                       D  $\frac{54y}{12}$

Jared divided  $\frac{5}{6} \div \frac{5}{8}$ . His answer of  $\frac{6}{8}$  is correct.

True or false?

- A true  
B false