

PRACTICE

REVIEW/PREVIEW SIMPLIFY

- $x + 0.2x$
- $x - 0.2x$
- $x + 0.8x$
- $x + (1/4)x$
- $x - (1/4)x$

PREVIEW EQUAL RATIOS

The equations below all involve two equal ratios. Find the value of x that will make the ratios equal. You may want to use trial and error with your calculator.

- $\frac{x}{4} = \frac{6}{1}$
- $\frac{3}{x} = \frac{5}{7}$
- $\frac{x}{3} = \frac{5}{7}$
- $\frac{3}{1} = \frac{6}{x+7}$
- $\frac{4}{5} = \frac{6}{x+7}$

REVIEW/PREVIEW EQUATIONS

- For each equation, use trial and error to find a value of n that makes it true.
 - $3n + 10 = 5n$
 - $5n + 10 = 3n$
 - $7n + 10 = 8n$
 - $8n + 10 = 7n$
- Use trial and error or the cover-up method to solve these equations.
 - $2(x + 5) = 8$
 - $5 + 2(x + 4) = 19$
 - $3(2x + 4) - 7 = 11$
 - $-4(10x - 3) - 6 = -14$
- Find a positive integer that satisfies each equation.
 - $3n - 1 = 47$
 - $n^2 - 5 = 59$
- Find a negative integer and a positive integer that satisfy the equation
$$n^2 - n = 20.$$