

I can rewrite literal equations.

Solve the literal equation for the variable noted

1) $3y - 15x = 12; y$
 $+15x \quad +15x$

$$\frac{3y}{3} = \frac{15x+12}{3} \quad \frac{15x}{3}$$

$$\boxed{y = 5x + 4}$$

2) $b = 3x + 9xy; x$

$$\frac{b}{3+9y} = \frac{x(3+9y)}{3+9y}$$

$$\boxed{\frac{b}{3+9y} = x}$$

I can rewrite and use formulas for area.

Solve the formula for the indicated variable

1) $P = a + b + c; b$

Perimeter of a triangle

$$\begin{array}{r} P = a + b + c \\ -a \quad -a \\ \hline P - a = b + c \\ -c \quad -c \\ \hline P - a - c = b \end{array}$$

$$\boxed{P - a - c = b}$$

2) $V = lwh; w$

Volume of a box

$$\frac{V}{lh} = \frac{lwh}{lh}$$

$$\boxed{\frac{V}{lh} = w}$$

I can rewrite and use other common formulas.

1) You deposit \$800 in an account that earns simple interest at an annual rate of 5%. How long must you leave the money in the account to earn \$100 in interest? (time is in years)

$$\frac{I}{Pr} = \frac{Rrt}{Pr}$$

$$\frac{I}{Pr} = t = \frac{100}{800(0.05)} = \boxed{2.5 \text{ years}}$$