

Bellwork: 09/12/17

Solve the equation for y.

1. $2x + y = -9$
 $y = -9 - 2x$

2. $4x - 10y = 12$
 $-4x \quad -4x$
 $\frac{-10y}{-10} = \frac{12-4x}{-10}$
 $y = -1.2 + .4x$

3. $13 = \frac{1}{6}y + 2x$
 $78 - 12x = y$

Corrections

Solve the equation for y.

1. $5y - x = 10$ 2. $4x - 4y = 1$ 3. $12 = 6x + 3y$

~~$6x - 6x$~~
 $\frac{12-6x}{3} = \frac{3y}{3}$
 $4 - 2x = y$

Rewrite the equation in terms of y.

$2x + 5y = 6$

Solve the formula for the red variable.

4. Area of rectangle: $A = bh$ 5. Simple interest: $I = Prt$

Describe how to solve $d = rt$ for t .

$\frac{d}{r} = t$

Solve the equation

$A = l \cdot w$ for w

$$\frac{A}{l} = w$$

$$A = \frac{1}{2} \cdot l \cdot w$$

$$\frac{2A}{l} = w$$

$$h = \frac{1}{5}(s + 6)$$

$$5h = s + 6$$

$$5h - 6 = s$$

$$h = \frac{1}{5}s + \frac{6}{5}$$

$$5\left(\frac{1}{5}s + \frac{6}{5}\right) = s + 6$$

$$5h - 6 = s$$

Solve this equation for l .

$$P = 2l + 2w$$

$$\frac{P - 2w}{2} = \frac{2l}{2}$$

$$\frac{P}{2} - w = l$$

7. The formula for the area of a triangle is $A = \frac{1}{2}bh$.

a. Solve the formula for h .

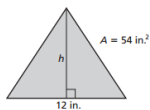
$$2A = b \cdot h$$

$$\frac{2A}{b} = h$$

b. Use the new formula to find the value of h .

$$\frac{2(54)}{12} = h$$

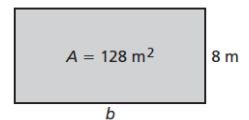
$$h = 9 \text{ in.}$$



1. a. Write a formula for the area A of a rectangle.

b. Solve the formula for b .

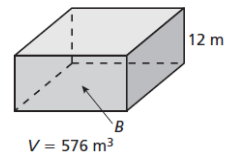
c. Use the new formula to find the base of the rectangle.



2. a. Write a formula for the volume V of a prism.

b. Solve the formula for B .

c. Use the new formula to find the area of the base of the prism.



Exit Ticket: Solve $2x + 4y = 11$ for y .

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