5 Solve for w.

$$P = 2\ell + 2w$$

6 Solve for b.

$$A = \frac{1}{2}bh$$

Literal Equations

To solve a literal equation for one variable, use _____.

What is a literal equation?

A literal equation is _____

_____

_____

Solve for x.

$$x + 7 = -12$$

1 Solve for a.
$$a + b = c$$

Solve for y.

$$y - 9 = 34$$

2 Solve for d.
$$d - e = f$$

7 Solve for ℓ.

$$S = \pi r \ell + \pi r^2$$

8 Solve for w.

$$S = \frac{w - 10e}{m}$$

Solve for x.

$$-6x = -30$$

3 Solve for r.
$$C = 2\pi r$$

Solve for y.

$$\frac{y}{-4} = 8$$

4 Solve for m.
$$D = \frac{m}{V}$$

Two-Step Equations

One-Step Equations

5 Solve for w.

$$P = 2\ell + 2w$$
$$-2\ell \quad -2\ell$$
$$\frac{P - 2\ell}{2} = \frac{2w}{2}$$

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

6 Solve for b.

$$2 \cdot A = \frac{1}{2}bh \cdot 2$$

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

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

Literal Equations

To solve a literal equation for one variable, use ___inverse operations___.

Addition & Subtraction
Multiplication & Division
Squares & Square Roots

What is a literal equation?

A literal equation is __an equation__

__with two or more variables.__

____

$x + 7 = -12$

$-7 \quad -7$

$x = -19$

① Solve for a.

$a + b = c$

$- b \quad - b$

$a = c - b$

$y - 9 = 34$

$+ 9 \quad + 9$

$y = 43$

② Solve for d.

$d - e = f$

$+ e \quad + e$

$d = f + e$

---

⑦ Solve for ℓ.

$S = \pi r \ell + \pi r^2$

$-\pi r^2 \qquad -\pi r^2$

$\dfrac{S - \pi r^2}{\pi r} = \dfrac{\pi r \ell}{\pi r}$

$\dfrac{S - \pi r^2}{\pi r} = \ell$

---

⑧ Solve for w.

$m \cdot S = \dfrac{w - 10e}{m} \cdot m$

$Sm = w - 10e$

$+ 10e \qquad + 10e$

$Sm + 10e = w$

$\dfrac{-6x}{-6} = \dfrac{-30}{-6}$

$x = 5$

③ Solve for r.

$\dfrac{C}{2\pi} = \dfrac{2\pi r}{2\pi}$

$\dfrac{C}{2\pi} = r$

$-4 \cdot \dfrac{y}{-4} = 8 \cdot -4$

$y = -32$

④ Solve for m.

$V \cdot D = \dfrac{m}{V} \cdot V$

$Dv = m$

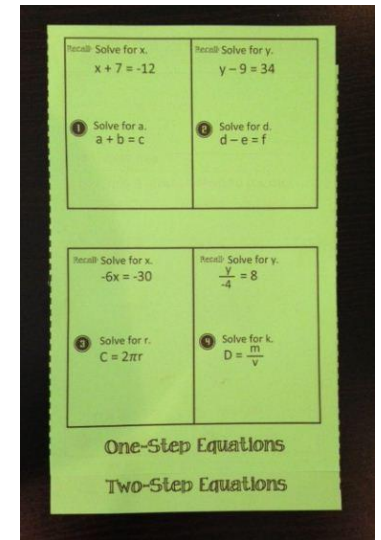# Two-Step Equations

One-Step Equations

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Directions

<u>Step 1:</u> Print pages 1 & 2 front to back. Flip along the long edge.

<u>Step 2:</u> Cut along the dotted line, creating two half strips of paper.
Line up the bottom of the pages as shown.

⟶

<u>Step 3:</u> Fold over the top portion of both sheets and secure with a few staples.

The final product should look like this: