1.4

REWRITING EQUATIONS AND FORMULAS

DO NOW

Solve the equation. Check your solution.

1) $5h - 7 = 2(h + 1)$

DO NOW

Solve the equation. Check your solution.

$$2) \quad 2 - 15n = 5(-3n + 2)$$

DO NOW

Solve the equation. Check your solution.

3) $6(2y+1) = 12y + 6$

Something you should know...

$$0 \div 3 \qquad \frac{0}{3}$$

$$3 \div 0 \qquad \frac{3}{0}$$

What's a Formula?

An equation made up mostly of variables

$$A = lw$$

$$A = \pi r^2$$

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

Example 1

Solve the formula for *m*. (Get the variable by itself)

$$F = ma$$

Example 2

Solve the formula for *x*. (Get the variable by itself)

$$y = mx + b$$

Example 3

Solve the formula for **b**. (Get the variable by itself)

$$A = \frac{1}{2}h(a+b)$$

Groupwork

Solve the formula for *y*. (Get the variable by itself)

1) $y - 5x = 10$

2) $15 = 6x + 3y$

Groupwork

Solve for h

3) $A = bh$

Solve for L

4) $S = V - L$

Groupwork

Solve for W

5) $P = 2W + 2L$

Solve for R

6) $C = \dfrac{1}{4}(R + 12)$