1.10 Rewriting Equations

SWBAT rewrite equations to highlight a specific variable.

Assignments

HW11

Rewriting Equations

- Sometimes, it can be useful to rearrange formulas to highlight a different variable or quantity.
- 1. Identify the variable you wish to isolate.
- 2. Solve following SADMEP.
- Solve xy = v for y.

- 1. Solve b = y c for c.
- 2. Solve n = h + x for x.
- 3. Solve ng = t r for t.
- 4. Solve yn = r e for y.
- 5. Solve g = xc for x.
- 6. Solve $g = \frac{x}{c}$ for x.
- 7. Solve z = m x for x.
- 8. Solve u = a k for a.

Rewriting Equations

- 1. Solve 4y = x 6 for y
- 2. Solve y + 14 = 3x for y
- 3. Solve 2x 6y = 14 for y
- 4. Solve 4x 3y = 5 for y
- 5. Solve $y 4 = \frac{1}{2}(x 4)$ for y
- 6. Solve $y + 3 = \frac{2}{3}(x 12)$ for y

The formula to change temperature from °C to °F is: $F = \frac{9}{5}C + 32$

Rewrite this formula to change °F to °C (i.e. solve for C)

The formula for density is $D = \frac{M}{V}$, where D is density, M is mass, and V is volume. Rewrite this formula to highlight mass.

Rewriting Equations

- 1. Solve 4y = h 6 for y
- 2. Solve $\frac{y}{x} = \frac{r}{t}$ for x
- 3. Solve 3h = -y 1 + b for b
- 4. Solve z = y + mx for x
- 5. Solve z = m + a b for a
- 6. Solve $\frac{5}{2x} = p t$ for x

- The formula for the area of a rectangle is A = bh, where A is area, b is the length of the base, and h is the length of the height. Rewrite this formula to highlight the length of the base.
- The formula for circumference of a circle is $C = 2\pi r$, where C is the circumference and r is the radius. Rewrite this formula to highlight the radius.