

## Literal Equations

A literal equation is an equation that contains multiple variables.

- The goal of a literal equation is to isolate a particular variable (not always x)!

<p>1. Solve for a.</p> $ax + b = c$	<p>2. Solve for w.</p> $V = lwh$	<p>3. Solve for b.</p> $A = \frac{y + b}{2}$
<p>4. Solve for x.</p> $3x + 5x - 7y = z$	<p>5. Solve for w.</p> $CD = \frac{12s}{w}$	<p>6. Solve for t.</p> $\frac{t}{5} - 4r = 25$

7. You convert from **Celsius** to **Fahrenheit** using the formula

$$F = \frac{9}{5}C + 32$$

How do you convert from Fahrenheit to Celsius? (Hint: Solve for C)

8. The formula for a person's typing speed is  $s = \frac{w - 10e}{m}$ , where  $s$  is speed in words per minute,  $w$  is number of words typed,  $e$  is number of errors, and  $m$  is number of minutes typing. Solve for  $e$ .

9.  $\frac{2}{5}(-10a + 5b) = d$       Solve for  $a$