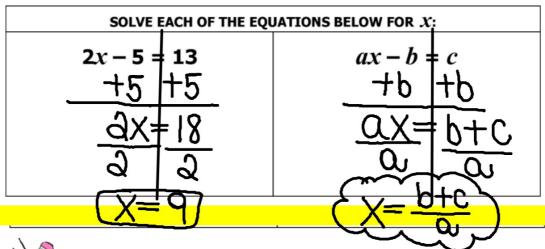
MULTI-VARIABLE EQUATIONS



QUICK-WRITE: What are some similarities and differences between the two equations?

The right equation has no numbers. In both equations, we are solving for x. Multi-variable equations have mostly variable answers.

Solve each equation for the specified variable.

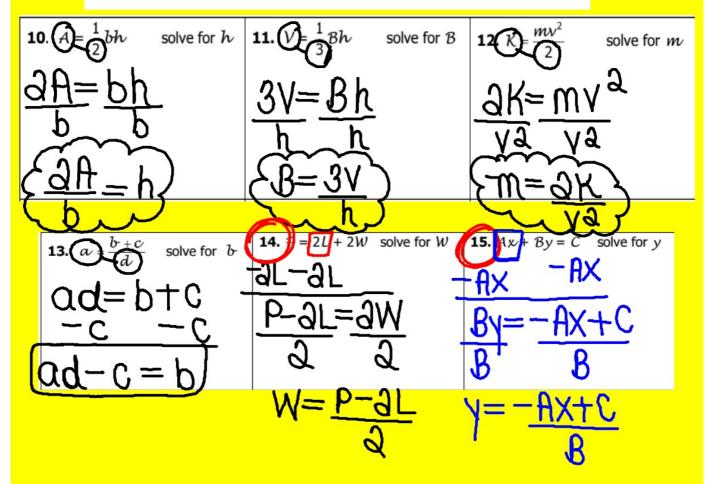
ONE—Step Problems

1. A = bw solve for w 2. A = bh solve for h 3. d = rt solve for t 4. I = prt solve for t 5. V = lwh solve for h 6. $C = 2\pi r$ solve for r 7. w = c - s solve for c 8. $A = \pi r^2$ solve for π 9. D = m solve for m 1. C = m solve for m 1. C = m solve for m 1. C = m 2. C = m 2. C = m 2. C = m 2. C = m 3. C = m 4. C = m 5. C = m 5. C = m 5. C = m 6. C = m 7. C = m 8. C = m 9. C = m 9

Multi-Step Problems

Hints to help:

- Think backwards PEMDAS
- Remove fractions by multiplying by the reciprocal.
- Last step is USUALLY to divide by whatever is next to your variable.



Challenge!

19. Solve
$$C = \frac{5}{9}(F-32)$$
 for $F = \frac{5}{5}(F-32)$ for $F = \frac{5}{5}(F-32)$

20. Solve
$$A = \frac{1}{2}h(b_1+b_2)$$
 for b_1
 $A = h(b_1+b_2)$
 $A = h(b_1+b_2)$
 $A = b_1+b_2$
 $A = b_1+b_2$