Warm Up
$$10/4/18$$
1. Solve: $12(x-4) + 3 = 2(6x + 5)$
 $12x + 48 + 3 = 12x + 10$
 $12x + 45 = 12x + 10$
 $-12x + 45 = 10$
 $-45 = 10$

2. Translate into a verbal expression:

$$4(15 - x) + 7$$

Four times the difference of 15 and a number plus seven

3. Solve:

(8)
$$\frac{7}{8} \times \frac{(8)}{5} = \frac{1}{2} \times + 9(8)$$

$$\frac{7}{8} \times \frac{2}{2}$$

$$\frac{7}{2} \times -40 = 4 \times +72$$

$$\frac{-4 \times -40}{3 \times -40} = 72$$

$$\frac{7}{4 \times 0} \times \frac{112}{40} \times \frac{112}{3} \times \frac{$$

A=lw

2wv = y

Literal Equations

2f = g

 $ab = \underline{c}$

MULTI-VARIABLE EQUATIONS (Literal Équations)

SOLVE EACH OF THE EQUATIONS BELOW FOR ${oldsymbol {\mathfrak X}}$:

$$2x - 5 = 13$$

 $+5 + 5$
 $2X = 18$
 $2X = 18$
 $2X = 9$

$$ax - b = c$$

$$4b + b$$

$$ax = b + c$$

$$ax = b + c$$

$$x = b + c$$

ONE STOP PROPERNY

$\frac{A}{l} = \frac{w}{s}$ solve for w $w = \frac{A}{l}$	$2. \frac{A}{b} = \frac{bh}{b}$ solve for h $h = \frac{A}{b}$	3. d=xt r k t=d	solve for
$ \begin{array}{c} I = Nt \\ Pr \\ T = \frac{T}{Pr} \end{array} $ solve for t	5. $V = \frac{huh}{h}$ solve for h $h = \frac{V}{h}$	6.C= 27 27 27 Y= C 271	solve for
solve for c $C = M + S$	solve for π $ \frac{8. \ A = \pi i^{2}}{r^{2}} \text{solve for } \pi $ $ \pi = \frac{A}{r^{2}} $	$ \begin{array}{c} 9. D = \frac{m}{V} \text{ (v)} \\ \text{(v)} & \text{(v)} \end{array} $	solve for и

Multi-Step Problems

ts 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.

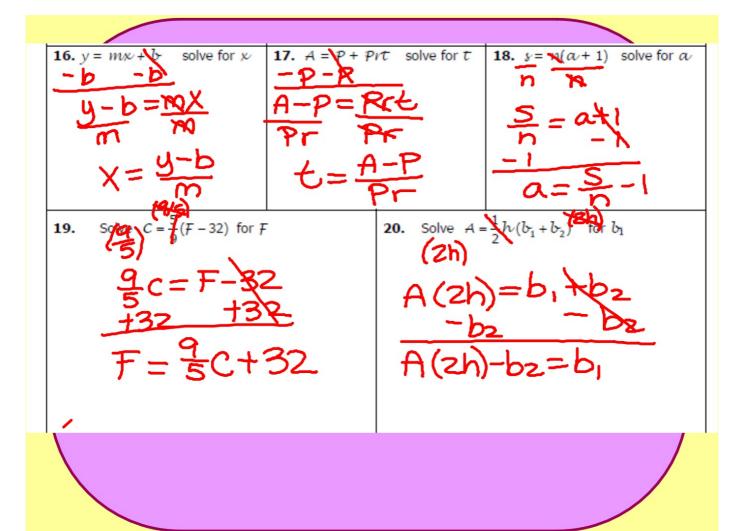
$$A = \frac{1}{2}bh(2) \text{ solve for } h$$

$$2A = \frac{1}{2}bh(2) \text{ solve for } h$$

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

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

$$A$$



Solve for Z

$$\begin{array}{c}
a = X \\
X \\
X
\end{array}$$

$$\begin{array}{c}
A = X \\
X
\end{array}$$

$$5^2 = 25$$
 $\sqrt{25} = 5$