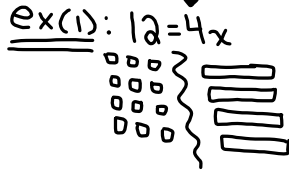


Solving equations of the form:  $ax = b$

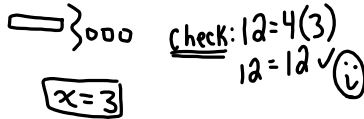
Solve using ALGEBRA TILES



the amount of  $x$ -tiles

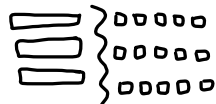


- ① Start by drawing the variable tiles.
- ② divide the unit tiles among the 4 variable tiles.



- ③ how many units are in one group of  $x$ ?

ex(2):  $3x = 15$



Solve using ALGEBRA:

ex(3):  $\cancel{6}n = \frac{48}{\cancel{6}}$

$n = 8$

ex(4):  $\frac{72}{\cancel{9}} = \frac{\cancel{9}x}{\cancel{9}}$

$8 = x$

$x = 8$

$1n = n$

- ① Isolate the variable  
"Get  $x$ " all alone."

- ② perserving equality  
"we must do the same thing to both sides of the equals sign."

$$\underline{\underline{\text{ex}(5)}}: \frac{\cancel{2}n}{\cancel{2}} = \frac{18}{\cancel{2}}$$

$$\boxed{n=9}$$

$$\underline{\underline{\text{ex}(6)}}: \frac{40}{8} = \frac{\cancel{8}y}{\cancel{8}}$$

$$5 = y$$

$$\boxed{y=5}$$