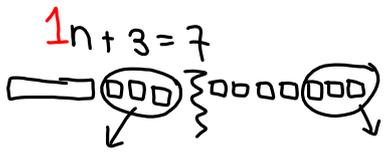


1.8 Solving Equations Using Algebra Tiles

 variable tile (n, x, y, \dots)
 unit tile ($+1$)

ex(1): $n + 3 = 7$



$n = 4$

Check: $4 + 3 \stackrel{?}{=} 7$
 $7 = 7 \checkmark \text{ 😊}$

1. Write the equation
2. model the equation
3. Isolate the variable (get n all alone).
4. Keep equation balanced (do the same thing to both sides).
5. State your answer.
6. check answer.

ex: $x + 5 = 6$



$x = 1$

Check: $1 + 5 \stackrel{?}{=} 6$
 $6 = 6 \checkmark \text{ 😊}$

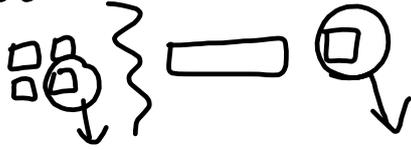
ex: $3 + y = 5$



$y = 2$

Check: $3 + 2 \stackrel{?}{=} 5$
 $5 = 5 \checkmark \text{ 😊}$

ex: $4 = n + 1$

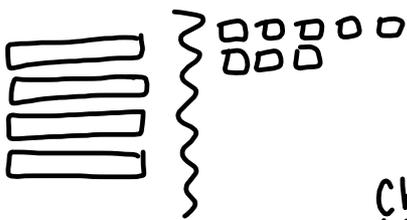


$3 = n$

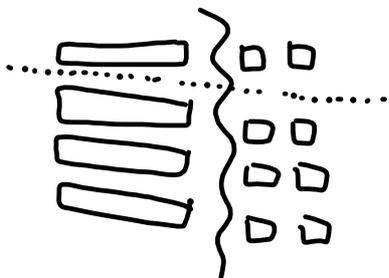
$n = 3$

check: $4 \stackrel{?}{=} 3 + 1$
 $4 = 4 \checkmark \text{ :)$

ex: $4n = 8$

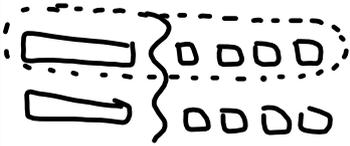
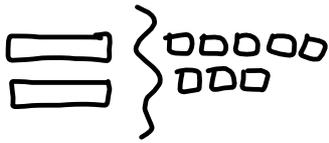


check: $4(2) \stackrel{?}{=} 8$
 $8 = 8 \checkmark \text{ :)$



$n = 2$

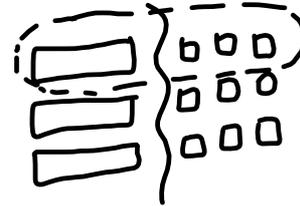
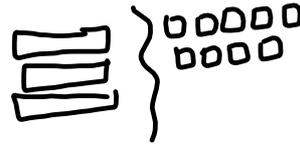
ex: $2n = 8$



$n=4$

check: $2(4) = 8$
 $8 = 8 \checkmark \text{😊}$

ex: $3n = 9$



$n=3$

check: $3(3) = 9$
 $9 = 9 \checkmark \text{😊}$