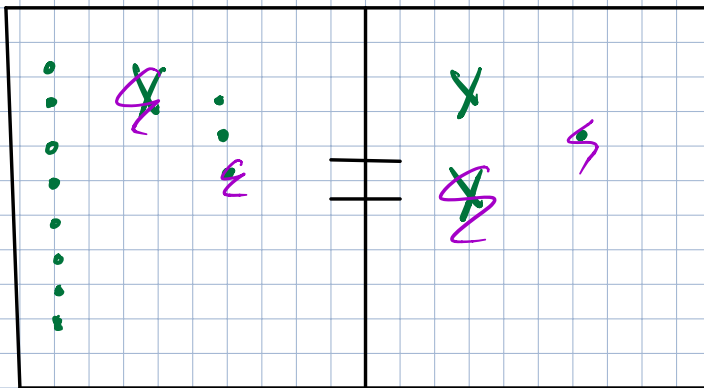


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Be able to solve equations using the distributive property.

Tiles

$$8 + 2x + 3 - x = 2x + 1$$



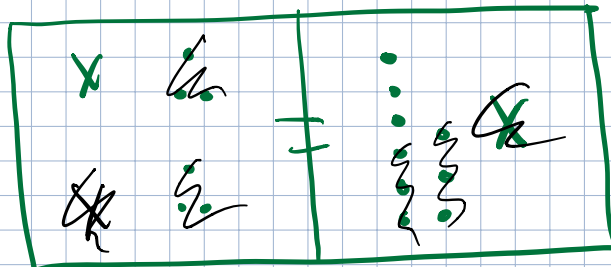
check

$$21 = 21$$

$$10 = x$$

Distributive Property

$$2(x+3) = 9+x$$



check

$$2(3+3) = 9+3$$
$$12 = 12$$

$$x = 3$$

Tiles

~~$2(x+3) = 10$~~

~~check~~  
 $2(2+3) = 10$   
 $10 = 10$

x	:	:	=	:	:	:
x	:	:	=	:	:	:

$x = 2$

Inverse Operations

$2(x+3) = 10$

$2x + 6 = 10$   
 $\underline{-6 \quad -6}$

$\frac{2x}{2} = \frac{4}{2}$

$x = 2$

---

$3(x+4) = 18$

$3x + 12 = 18$   
 $\underline{-12 \quad -12}$

$\frac{3x}{3} = \frac{6}{3}$

$x = 2$

x	:	:	=	:	:	:
x	:	:	=	:	:	:
x	:	:	=	:	:	:

~~check~~  
 $3(2+4) = 18$   
 $18 = 18$

Simplify

$$8(x+5)$$
$$8x+40$$

$$3(y-2)$$
$$3y-6$$

$$7(2x-3)$$
$$14x-21$$

$$-2(5+6p)$$
$$-10 + -12p$$
$$-10-12p$$