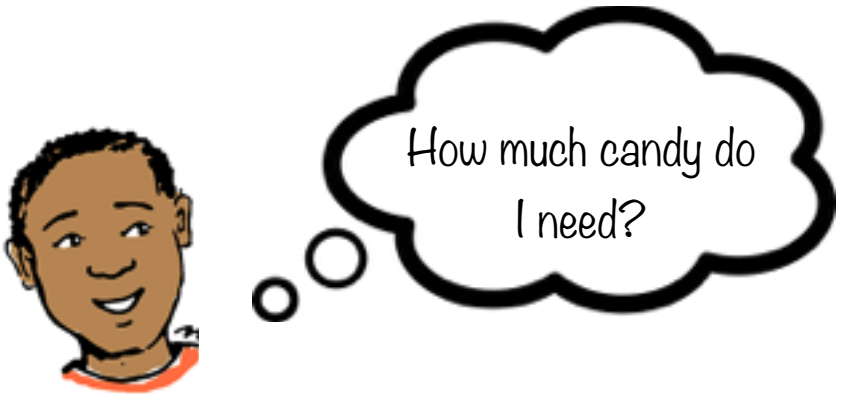
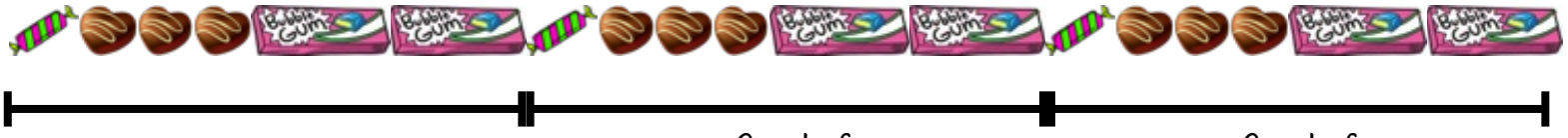
The Distributive Property

I want to give this candy to each of my three friends



$3(\quad) = ?$

Let's start by drawing out all of the candy I need



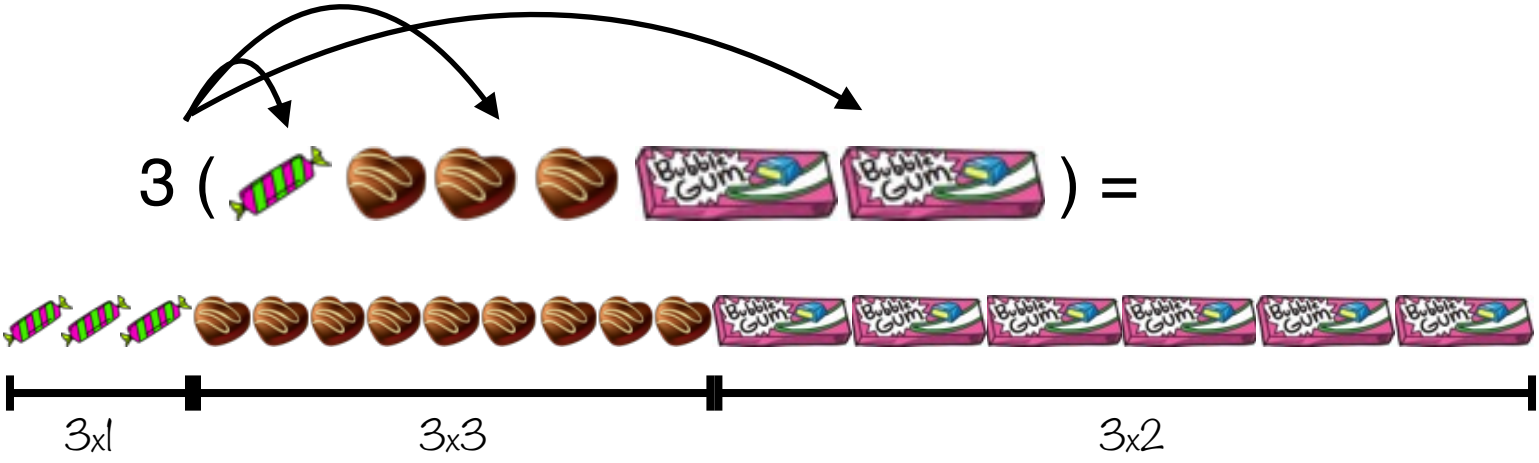
Candy for

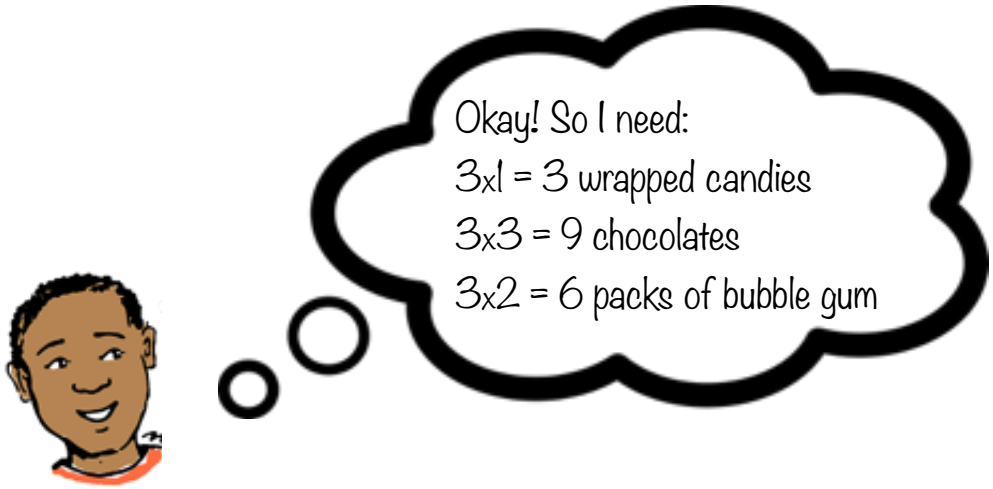
Candy for friend 2

Candy for friend 3

Now let's sort the candy by type

The Distributive Property: Candy



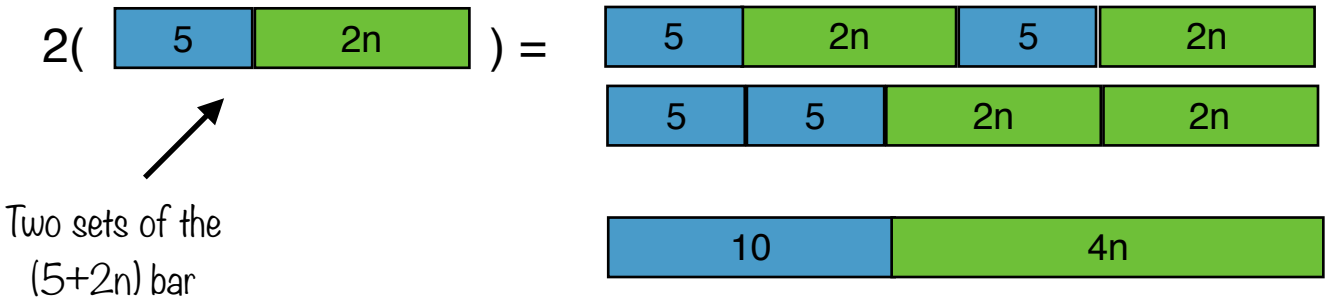


The Distributive Property: Algebra

$$n\,(a + b + c) = n \times a + n \times b + n \times c$$

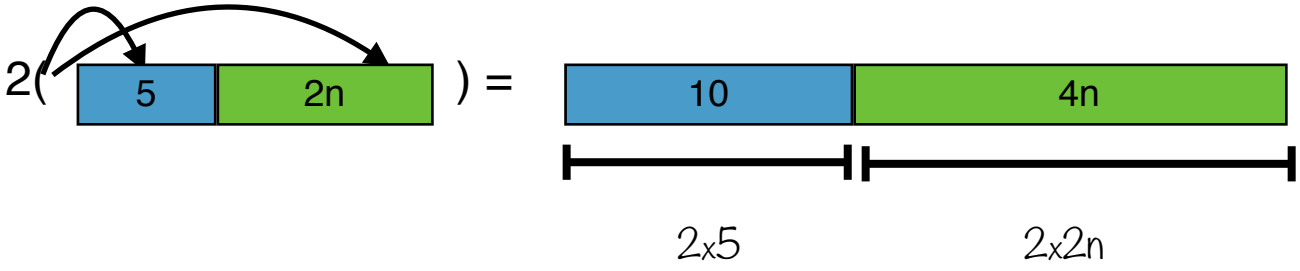
The Long Way

$$2(5+2n) = 10 + 4n$$

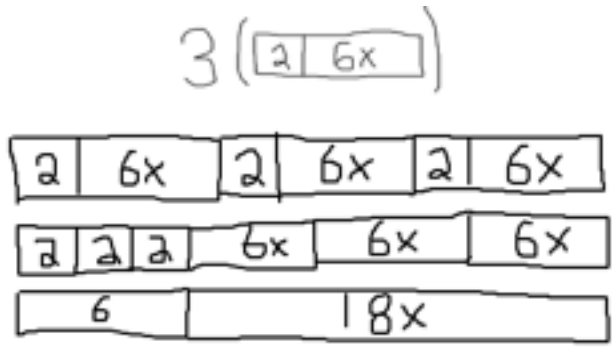


Using the Distributive Property Shortcut

$$2(5+2n) = 10 + 4n$$

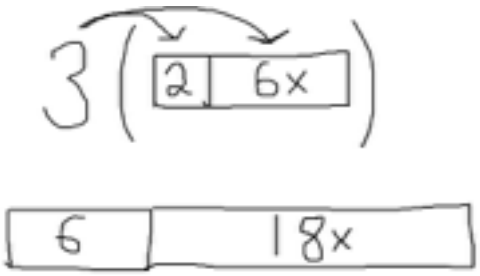
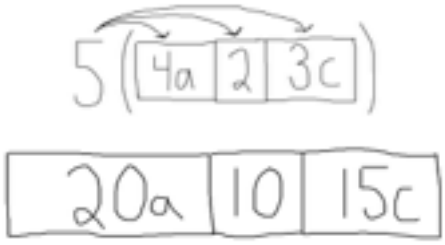


Practice: Model The Long Way

3(2+6x)	2(7+d)
	

3(2+2d)	2(b+3)

Practice: Model using the Distributive Property

3(2+6x)  	2(7+d)
5(4+3a)	6(4a+2)
5(4a+2+3c)  	3(5x+2y+4)