September 17, 2014 Starter

You are on your way to visit your Grandma, who lives at the end of the valley. It's her birthday, and you want to give her the cakes you've made.

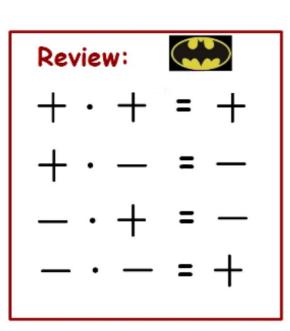
Between your house and her house, you have to cross 7 bridges, and as it goes in the land of make believe, there is a troll under every bridge!

Each troll, quite rightly, insists that you pay a troll toll. Before you can cross their bridge, you have to give them half of the cakes you are carrying, but as they are kind trolls, they each give you back a single cake.

How many cakes do you have to leave home with to make sure that you arrive at Grandma's with exactly 2 cakes?



9/17 - Multiplying Integers: more complicated problems



QUICK WRITE:

Explain "Batman rules" in your own words for the next 2 minutes.

How do you handle a problem with more than 2 integers multiplied together?

$$(-7)(4)(3) = 8 \cdot -10 \cdot -3$$

$$= 8 \cdot 30$$

$$= 240$$

$$-2 \cdot -6 \cdot 4 \cdot 10$$

$$= (-4)(-5)(-1)(-6)$$

$$= 480$$

$$= 20 \cdot 6$$

$$= 20 \cdot 6$$

What are "exponents"?

32 Exponent
32 Base
Base
23 Base
Base
What does the exponent tell you? immediately behind
Tells how many times to multiply
the base together.

$$3^{2}$$
= 3·3
= 9
 2^{3} 3 twos
= 2·2·2
= 8

Compute - watch the signs carefully!

$$(-2)^{3} = (-2)(-2)(-2) = -8$$

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

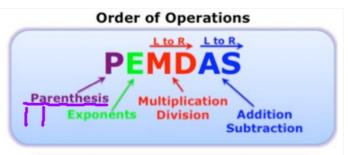
$$-5^{2} = -5 \cdot 5 = -25$$

$$(-5)^{2} = (-5)(-5) = 25$$

$$-5 \cdot -5$$

In problems with multiple operations, don't forget to use the

order of operations!



"Please Excuse My Dear Aunt Sally"

HOMEWORK Green WS6

Thursday end of class