BELL WORK

Which letter replaces the question mark?

6	4	4	1
4	N	L	7
5	U	?	1
6	10	14	2
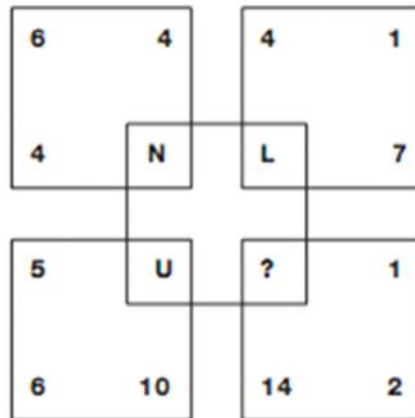
2.2 Notes Blank

Unit 2: Integers
2.2 Developing Rules to Multiply Integers

Name_____ _____

Block_____

Which model did you like best from last lesson?

~~████~~

When 2 integers with the same __sign__ are multiplied, their product is **always**
__positive__.

$(+2)\times(+3) = +6$ $(-2)\times(-3) = +6$

When 2 integers with __different__ signs are multiplied, their product is **always**
__negative__.

$(+2)\times(-3) = -6$ $(-2)\times(+3) = -6$

Integers have these properties of whole numbers.

Multiplying by 0: $4\times0 = 0$
$0\times-4 = 0$

In other words, if we multiply an integer by 0, the answer is __0__!

Multiplying by 1: $4\times1 = 4, \ 1\times4 = 4$
$1\times(-4) = -4$

In other words, if we multiply an integer by 1, the answer is what we multiplied by 1!

$$1 \times (-4) = -4$$
$$-1 \times 4 = -4$$

integer by 1, the answer is what we multiplied by 1!

Commutative Property:

$$4 \times 2 = 8 \qquad 2 \times 4 = 8$$
$$-4 \times 2 = -8 \qquad 2 \times -4 = -8$$

In other words, if we change the order that we multiply the numbers, the answer will be the _same_!

Distributive Property:

$$3(x + 4)$$
$$3 \cdot x + 3 \cdot 4$$

Multiply the outside number to each number in the bracket. Keep the addition sign in between!

You can write the product of integers without the use of the × sign.
$(-4) \times (+2)$ can be written as: $(-4)(+2)$

HW: p73# 1, 3, 4, 5a, 7bdfg, 8acef, 9ab, 10, 15

⟹ 2 handouts when you finish ☺