MasterMath

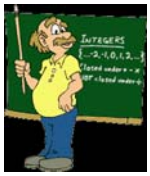
Number Sense

Integers and Absolute Value

Integers and Absolut

An ***Integer*** is a whole number: no fraction or decimal.
It can be positive or negative.

Integers	Not Integers
1, 3, 5, 286	½, 2 ⅛, -1 1/2
0, -6, -85	1.67, 2.25, -6.5



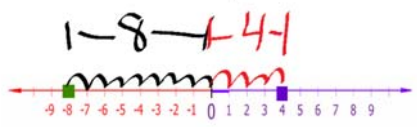
Integers and Absolut

Absolute Value is the distance a number is from zero.

The distance to Los Angeles is 1,250 miles. You wouldn't say the distance is -1,250 miles.

The ***Absolute Value*** of every Integer is ***positive***.

The ***Absolute Value*** of a number is the number without regard to it's sign.



Integers and Absolut

Absolute Value is the distance a number is from zero.

The distance to Los Angeles is 1,250 miles. You wouldn't say the distance is -1,250 miles.

The ***Absolute Value*** of a number is the number without regard to it's sign.

The ***Absolute Value*** of every Integer is positive.

$|250| = 250$

$|-6| = 6$

$|-3{,}280| = 3{,}280$

$|0| = 0$

Integers and Absolut

You try it!

$|-65| =$

Integers and Absolut

You try it!

$|-65| = 65$

You try it!

Is this number an Integer?

-65 ⅔

You try it!

Is this number an Integer?

-65 ⅔

No! An Integer is a whole number: no fractions or decimals!

You try it!

You and your friend get on an elevator on the 10th floor. He goes up 2 floors, you go down 3 flours. Each floor is 15' higher than the previous floor.

How did each of your elevations change relative to the 10th floor?

Who traveled the greatest distance, and what was that distance?

Integers and Absolut

You try it!

You and your friend get on an elevator on the 10th floor. He goes up 2 floors, you go down 3 flours. Each floor is 15' higher than the previous floor.

How did each of your elevations change relative to the 10th floor?

friend: +30' you: -45'

Who traveled the greatest distance, and what was that distance?

|+30'| = 30' |-45'| = 45

Integers and Absolut

You try it!

Solve this expression:

$|-6| + 6 =$

Integers and Absolut

You try it!

Solve this expression:

$|-6| + 6 =$

$|-6| = 6$

$6 + 6 = 12$

Integers and Absolut

You try it!

Solve this expression:

$18 - |-8| =$

Integers and Absolut

You try it!

Solve this expression:

$18 - |-8| =$

$|-8| = 8$

$18 - 8 = 10$

Integers and Absolut