Integers and Absolute Value Notes

**Integers**
All whole numbers and their opposites (in other words, all positive and negative whole numbers)

**Opposites**
Numbers that are the same distance from zero on the number line but in opposite directions
Examples: 10, -10 and -15, 15

***Another name for opposites is additive inverse.***

---

**Absolute Value**
a number’s distance from zero on the number line. It is written using absolute value bars, | |.

Example: |-9| is read “the absolute value of negative nine”

***The absolute value of a number is always positive***

---

**Simplifying an Absolute Value Expression**
The absolute value symbol | |, acts like parenthesis in the order of operations. The inside must be simplified before making it a positive.

**Practice:** Graph the following numbers AND their opposites on the number line below: