

## Adding & Subtracting

**Opposite Numbers** – Two numbers with the same numeral but have opposite signs.

Examples:

**2** and **-2** are opposites      **-5** and **5** are opposites

$\frac{2}{3}$  and  $-\frac{2}{3}$  are opposites      **n** and **-n** are opposites

**Absolute Value** – the distance from that number to zero on a number line, bars around a number (or numerical expression) indicate absolute value.

Examples:

$$|14| = 14$$

$$|-45| = 45$$

$$|x| = x$$

$$|-x| = x$$

### **Addition**

When adding numbers with the **same sign** (both positive or both negative), **add the numbers** and keep the sign.

Examples:

$$-12 + -34 = -36$$

$$4 + 10 = 14$$

When adding numbers with **different signs** (one positive and one negative) find the **subtract the numbers** and keep the sign of the higher number.

Examples:

$$-20 + 4 = -16$$

$$18 + -3 = 15$$

# S.A.D.S.

Subtraction