

Adding Integers

$$\text{neg} + \text{neg} = \text{neg}$$

$$\text{pos} + \text{pos} = \text{pos}$$

neg + pos = difference and keep the sign of the
↓
subtract
↑
greater absolute value

pos + neg = difference ↗

Multiplying Integers

$$(\text{neg})(\text{neg}) = \text{pos}$$

$$(\text{pos})(\text{pos}) = \text{pos}$$

$$(\text{neg})(\text{pos}) = \text{neg}$$

$$(\text{pos})(\text{neg}) = \text{neg}$$

- Multiplying numbers with the same sign will always be POSITIVE
- Multiplying numbers with opposite signs will always be NEGATIVE

Adding Examples

$$-7 + -3 = -10$$

$$7 + 3 = 10$$

$$-7 + 3 = -4$$

$$7 + (-3) = 4$$

Multiplying Examples

$$(-7)(-3) = 21$$

$$(7)(3) = 21$$

$$(-7)(3) = -21$$

$$(7)(-3) = -21$$