

Integers



Adding and Subtracting Integers

Adding or subtracting integers with like signs, add and keep the sign.

$$(4 + 2 = 6) \quad (-6 + -8 = -14) \quad (-9 - 4 = -13)$$

Adding or subtracting integers with unlike signs, subtract and keep the sign of the higher integer.

$$(-6 + 3 = -3) \quad (8 + -4 = 4)$$

*when subtracting a negative, it turns into a positive and then follows one of the two rules above.

$$(8 - -4 = 12 \text{ becomes } 8 + 4 = 12)$$

$$(-8 - -4 = -4 \text{ becomes } -8 + 4 = -4)$$



Multiplying and Dividing Integers

If the signs of the integers are the same, the product/quotient is **positive**.

$$(4 \times 6 = 16) \quad (8 \div 4 = 2)$$

If the signs of the integers are **different**, the product/quotient is **negative**.

$$(7 \times -6 = -42) \quad (6 \div -3 = -2)$$