**Addition of integers:**

If the **signs** are the **same**: Add the numbers and use the sign.

Example:

-4 **+** -5 = -9

+7 **+** + 6 = +13

If the **signs** are **different**:

Find the difference (drop the signs, and subtract the numbers) and use the sign of the larger integer.

Example:

+17 **+** -9 = +8 (17 – 9 = +8)

+8 **+** -14 = -6 (14 **-** 8= -6)

**Subtraction of integers:**

Rewrite the problem changing the operation to additions and change the sign of the second number to its opposite.

Example:

-7 - **+** +8 = -7 **+** -8 = -15

+9 **-** -18 = +9 **+** +18 = +27

-19 **-** -12 = -19 + +12 = -7

**Multiplication/division of integers**

If the integers have the **same signs**, the answer is **positive**. It does not matter if it is both positive or negative.

-6 x -9 = +54 ( n x n = p)

+9 x +7 = +63 (p x p = p)

-12 ÷ -4 = +3 (n ÷n = p)

+8 ÷ +2 = +4 (p ÷ p = p)

If the integers have **different signs** the answer is negative:

-8 x +9 = -72 (n x p = n)

+7 x - 4 = -28 ( p x n = n)

-28 ÷ +4 = -7 ( n ÷ p = n)

+16 ÷ -2 = -8 (p ÷ n = n)

**Multi- number answers**

(n x n) x n = n (n x p) x n = p

p x n = n n x n = p

(p x p) x n = n (n x n) x p = p

p x n = n p x p = p