

INTEGERS

ADDITION OF INTEGERS

SAME SIGNS

- ADD the numbers
- KEEP the sign

Examples:

$$9 + 3 = 12$$

$$-9 + -3 = -12$$

DIFFERENT SIGNS

- SUBTRACT the numbers
- TAKE the sign of the number with the greater absolute value.

Examples:

$$9 + -3 = 6$$

$$-9 + 3 = -6$$

SUBTRACTION OF INTEGERS

- ADD the OPPOSITE

Examples:

$$5 - (-4)$$

$$5 + 4$$

$$9$$

$$-5 - (-4)$$

$$-5 + 4$$

$$-1$$

$$-5 - 4$$

$$-5 + (-4)$$

$$-9$$

MULTIPLICATION/DIVISION OF INTEGERS

SAME SIGNS

The answer is POSITIVE.

Examples:

$$9 \times 3 = 27$$

$$\frac{9}{3} = 3$$

$$-9 \times -3 = 27$$

$$\frac{-9}{-3} = 3$$

DIFFERENT SIGNS

The answer is NEGATIVE.

Examples:

$$9 \times -3 = -27$$

$$\frac{9}{-3} = -3$$

$$-9 \times 3 = -27$$

$$\frac{-9}{3} = -3$$