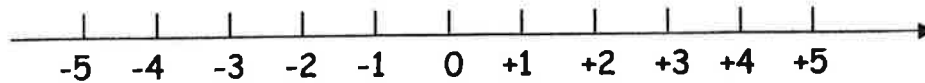


Operation on Integers

Integers is the set of positive , negative numbers and 0



NOTE: The larger the negative number the smaller its value

Example: Which is the colder temperature -5 degrees or -10 degrees ?

The colder the temperature the smaller the number

NOTE: 0 is larger than any negative number but smaller than any positive number

0 has no sign , it is neutral

NOTE: If a number has no sign in front of it, it is Positive.

RULES FOR ADDITION OF INTEGERS

1. Adding 2 numbers with like signs, keep sign and add number

Example: $(+3) + (+5) = (8)$ $(-5) + (-2) = (-7)$

2. Adding 2 numbers with unlike signs, keep sign of larger number and subtract

Example: $(-6) + (+2) = (-4)$ $(+7) + (-3) = (+4)$ $(3) + (-4) = (-1)$ $(9) + (-9) = 0$

RULES FOR SUBTRACTION OF INTEGERS

1. Keep sign of the first number

Change the operation to addition

Change the sign of the second number

Then follow the rules for addition_

Example: 1. $(+9) - (-4)$

$(+9) + (+4) = +13$

2. $(-5) - (-5)$

$(-5) + (+5) = 0$

RULES FOR MULTIPLICATION AND DIVISION

1. When multiplying or dividing numbers with 2 like signs answer is positive

Example: $(+5)(+3) = +15$ $(-16) \div (-8) = +2$

2. When multiplying or dividing numbers with 2 unlike signs the answer is negative

Example: $(+4)(-3) = -12$ $(-7)(5) = -35$