Rules for addition of negative integers :

- Addition of two positive integers always gives a positive-sum.
- Addition of two negative integers always give a negative-sum.
- Addition of a positive and a negative integer give either a positive or negative-sum depending on the value of the given numbers.

Examples :

Add the followings :

1.-522 and -160

We get -522 + (-160)

It can be written as

-522 – 160 = – 682

2. 2567 and – 325

We get 2567 + (-325)

It can be written as

2567 – 325 = 2242

3. -10025 and 139

We get -10025 + 139

It can be written as

-10025 + 139 = -9886

4. 2547 and -2548

We get 2547 + (-2548)

It can be written as

2547 – 2548 = -1

5. 2884 and -2884

We get 2884 + (-2884)

It can be written as

2884 – 2884 = 0

Rules for subtraction of negative integers :

- If both signs are positive, the answer will be positive.
- If both signs are negative , the answer will be negative.
- If the signs are different subtract the smaller absolute value from the larger absolute value. The sign will be the sign of the integer that produced the larger absolute value.
- To subtract integers, change the sign of the integer that is to be subtracted.

Examples :

Subtract the following :

1. – 27 – (- 23)

So we get – 27 + 23

On further calculation

= 23 – 27

= – 4

2. – 17 – 18 – (-35)

So we get – 35 + 35

= 0

3. Subtract the sum of – 5020 and 2320 from – 709.

Solution:

We know that the sum of -5020 and 2320 is

-5020 + 2320

= 2320 – 5020

= – 2700

Subtracting from – 709 we get

= – 709 – (-2700)

= – 709 + 2700

= 1991

4.The sum of two integers is 238. If one of the integers is – 122, determine the other.

Solution:

It is given that

Sum of two integers = 238

One of the integers = – 122

So the other integer = 238 – (- 122)

Other integer = 238 + 122 = 360

U James Riju