

NCERT Solutions for Class 7 Maths Chapter 1 Integers

EXERCISE 1.2

1. Write down a pair of integers whose:
(a) sum is -7
Solution:
= -4 + (-3)
= -4 - 3
... [: (+ × - = -)]

(b) difference is – 10 Solution:-

= -25 - (-15)
= - 25 + 15
= -10

... [:: (- × - = +)]

(c) sum is 0

Solution:-

= 4 + (-4)= 4 - 4 = 0

2. (a) Write a pair of negative integers whose difference gives 8 Solution:-

= (-5) - (- 13) = -5 + 13 ... [∵ (- × - = +)] = 8

(b) Write a negative integer and a positive integer whose sum is – 5. Solution:-

= -25 + 20 = -5

(c) Write a negative integer and a positive integer whose difference is – 3. Solution:-

= -6 - (-3)= -6 + 3 ... [:: (- × - = +)] = -3

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3. In a quiz, team A scored – 40, 10, 0 and team B scored 10, 0, – 40 in three successive rounds. Which team scored more? Can we say that we can add integers in any order? Solution:-

From the question, it is given that Score of team A = -40, 10, 0 Total score obtained by team A = -40 + 10 + 0

= - 30

Score of team B = 10, 0, -40

Total score obtained by team B = 10 + 0 + (-40)

Thus, the score of the both A team and B team is same. Yes, we can say that we can add integers in any order.

4. Fill in the blanks to make the following statements true:

(i) (-5) + (- 8) = (- 8) + (.....)

Solution:-

Let us assume the missing integer be x,

Then,

= (-5) + (-8) = (-8) + (x)= -5 - 8 = -8 + x = -13 = -8 + x

By sending – 8 from RHS to LHS it becomes 8,

= - 13 + 8 = x = x = - 5

Now substitute the x value in the blank place,

-5) + (- 8) = (- 8) + (- 5) ... [This equation is in the form of Commutative law of Addition]

(ii) -53 + = -53

Solution:-

Let us assume the missing integer be x, Then,

= -53 + x = -53

By sending – 53 from LHS to RHS it becomes 53,

= x = -53 + 53 = x = 0

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Now substitute the x value in the blank place,

= -53 + 0 = -53 ... [This equation is in the form of Closure property of Addition]

(iii) 17 + = 0

Solution:-

Let us assume the missing integer be x,

Then,

= 17 + x = 0

By sending 17 from LHS to RHS it becomes -17,

= x = 0 - 17

= x = - 17

Now substitute the x value in the blank place,

= 17 + (-17) = 0 ... [This equation is in the form of Closure property of Addition] = 17 - 17 = 0

(iv) [13 + (- 12)] + (.....) = 13 + [(-12) + (-7)] Solution:-

Let us assume the missing integer be x,

Then,

= [13 + (-12)] + (x) = 13 + [(-12) + (-7)]= [13 - 12] + (x) = 13 + [-12 -7] = [1] + (x) = 13 + [-19] = 1 + (x) = 13 - 19 = 1 + (x) = -6 By sending 1 from LHS to RHS it becomes -1,

> = x = -6 - 1 = x = -7

Now substitute the x value in the blank place,

= [13 + (-12)] + (-7) = 13 + [(-12) + (-7)] ... [This equation is in the form of Associative property of Addition]

(v) (- 4) + [15 + (-3)] = [- 4 + 15] +..... Solution:-

Let us assume the missing integer be x, Then,

= (-4) + [15 + (-3)] = [-4 + 15] + x= (-4) + [15 - 3)] = [-4 + 15] + x

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= (-4) + [12] = [11] + x = 8 = 11 + x By sending 11 from RHS to LHS it becomes -11,

= 8 – 11 = x

= x = -3

Now substitute the x value in the blank place,

= $(-4) + [15 + (-3)] = [-4 + 15] + -3 \dots$ [This equation is in the form of Associative property of Addition]

