

IITJEE Foundation Practice paper

NEGATIVE NUMBERS AND INTEGERS

class-6-Mathematics Number of Questions: 54

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1

Express the following with the appropriate sign:

10° c below zero

- +10° c - 10° c

2

Express the following with the appropriate sign:

15° c above 0° c temperature

- +15° c -15° c

3

Which of these of these options have all their values below zero?

- 1, 2, 3, 4 -1, -2, -3, -4 -1, 2, -3, -4 -1, -2, -3, 4

4

Express the following statement using integers and the appropriate sign:

A loss of eight hundred rupees.

- 800 +800 +400 0

5

Express the following statement using integers and the appropriate sign:

Rs 700 profit

- 700 +700 0 +1400

6

Express the following statement using the appropriate sign :

Decrease of 8

- +7 -8 +8 0

7

Express the following statement using the appropriate sign :

2 km below sea level

- +2 km -2 km

8

Express the following statement using the appropriate sign :

A deposit of Rs 300

- +300 -300

9

Write the opposite of the following:

Increase in population.

- Decrease in population Increment in population

10

Which option represents this scenario?

5 people leaving a long queue.

- +5 -5

11

If $a = 21$ and $b = 18$, then $a + b =$

- 49 39 29 3

12

The additive inverse of (-172) is

- 172 +172 $-\frac{1}{172}$ $\frac{1}{172}$

13

$$(-325) - (-13) =$$

- 312 338 -338 -312

14

$$\text{If } (-72) + x = -72, \text{ then } x =$$

- 0 144 -1 -72

15

If 10 km is covered in 12 hrs, 15 km will be covered in

- 12.5 hrs 10 hrs 18 hrs 16 hrs

16

If $a = 5$, $b = -3$ and $c = 9$ then $a + 2b - 3c =$

- 38 -16 -28 -10

17

Fill in the blanks with $<$, $>$ or $'='$ sign:

$$(-10) - 12 \quad \underline{\hspace{2cm}} \quad - (-15) - 7$$

- $>$ $<$ $=$ Cannot be compared

18

Find the value of $2(-3) - (-6) - (7) + (2) = ?$

- 5 -1 7 5

19

Find the additive inverse of -15

- 7 -7 15 -5

20

$$(-32) - (-44) = ?$$

- 12 76 -12 -76

21

Find the value of $-16 + (-2) + 22 = ?$

- 8 -4 -8 4

22

The multiplicative inverse of -10 is :

- $\frac{1}{10}$ $\frac{1}{-10}$ 1 0

23

The multiplicative inverse of 1 is :

- 1 0 1

24

At which point would we reach if tried to represent 4 more than 1, on the number line ?

- 3 -3 4 5

25

Find the number which is 6 more than 7

- 1 13 -1 14

26

Find the number which is 20 less than the number which is 17 more than 23.

- 24 23 20 21

27

What is the opposite of 1057 km north ?

- 1057 km east 1057 km west -1057 km north 1057 km south

28

What is the opposite of loss of Rs.10 ?

- Loss of 10 paise Gain of Rs.10 Gain of 10 dollars Loss of 10 dollars

29

What is the opposite of 5000 BC

- 10000 BC 5000 AD -5000 BC 10000 AD

30

Represent the following using the appropriate sign:
A submarine moving at 1117 m below the sea level.

- + 1117 meters - 1117 meters

31

Represent the following using the appropriate sign:
An aeroplane moving through the clouds, at a height of 12131 metres.

- + 12131 meters - 12131 meters

32

Between the following numbers, which one is to the left of the other on the number line ?

5 , 9

- 5 9

33

Between the following numbers, which one is to the left of the other on

the number line ?

-11 , 8

- 11 8

34

Between the following numbers, which one is to the left of the other on the number line ?

- 12, - 24

- 12 -24

35

Analyse the given statements.

A) → All integers below 0 are negative integers.

B) → All integers above -1 are positive integers.

C) → All the lines on the number line should have equal spacing between them.

- A is false B is false C is false A and C are false.

36

Write all the integers in the decreasing order.

5, 6, -2, 9, -7, -13

- 9, 6, 5, -2, -7, -13 -13, -7, -2, 5, 6, 9 9, 6, 5, -13, -7, -2
 They are already in the descending order

37

Write five negative integers less than 3.

- 2 , 1, 0, -1, -2 1, 0, -1, -2, -3 0, -1, -2, -3, -4 -1, -2, -3, -4, -5

38

What is the successor of -284762

- 284763 - 284761 - 284772 - 284752

39

$$-8087579 \underline{\hspace{1cm}} -8087578$$

< > =

40

$$-57675 \underline{\hspace{1cm}} 57670$$

< > =

41

$$-3 \times \dots = 27$$

-4 9 -9 0

42

$$\dots \times -8 = 72$$

8 -8 -9 -7

43

$$-12 \div 6 =$$

2 -2 5 -6

44

$$-12 \div -6 = ?$$

-2 2 4 0

45

$$20 \div \underline{\hspace{1cm}} = -2$$

20 10 -10 1

46

The additive identity of an integer is:

- 1 0 The number with the opposite sign The reciprocal of the number

47

$$-8 - (-12) = ?$$

- 20 4 -4 -20

48

By how much does -7 exceed -14 ?

- 7 7 0 -1

49

What must be subtracted from -8 to get 16 ?

- 24 -24 22 -22

50

The sum of two integers is 11.

If one of them is -8, find the other.

- 3 19 -19 0

51

$$(-3) \times (-4) + (-3) \times (-2) =$$

- 6 -6 18 2

52

What is $-6 + 15$?

- 9 9 21 -21

53

Evaluate $15 - 17 + 28$

- 32 26 28 31

54

Place the appropriate sign ($<$, $>$ or $=$) in the box.

$$-6 + 15 - 37 \square -12 - 16$$

- $-6 + 15 - 37 < -12 - 16$ $-6 + 15 - 37 > -12 - 16$
 $-6 + 15 - 37 = -12 - 16$ We cannot compare the two

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