










Integers

<1M>

1. If  = Positive integers,  = Negative integers,  = Zero .

Which of following represents integers?

(A)  +  + 

(B)  +  - 

(C)  -  - 

(D) all of them

2. The cube of a negative integer is a-

(A) Positive integer.

(B) Negative integer.

(C) Neutral integer.

(D) None of them.

3. Which of the following is the incorrect statement?

(A) The set of positive and negative whole numbers are integers.

(B) The successor is one more than the given number and the predecessor is one less than the given number.

(C) The smallest negative integer is -1

(D) There is infinite numbers of positive and negative integers on the number line.

4. The integer which is 15 more than -55 is _____.

(A) -70

(B) +70

(C) -40

(D) +40

5. If we are at -6 in number line, in which direction should we move to reach -1?

(A) Left

(B) Right

(C) Upwards

(D) Downwards

6. We are given a set of 30 buttons such that 5 are black, 5 are yellow, 6 are green, 4 are red, 3 are blue and 7 are pink. If the colour represent:

Green = (-3) Yellow = (-9) Blue = (+1)

Pink = (+3) Black = (+6) Red = (-7)

The sum of the 30 buttons is _____

(A) -37

(B) -54

(C) 39

(D) 54

7. Mohan traveled in a bus towards east of Delhi by 49 km and then towards the west of Delhi by 78 km. How far was he from Delhi finally?

(A) West direction 29 km

(B) East direction 29 km

(C) North direction 21 km

(D) South direction 25 km

8. Which of the following is the correct statement?

(A) The sum of two positive integers is negative.

(B) The sum of two negative integers is positive.

(C) The difference of two negative integers is always negative.

(D) The sum of two negative integers depends on the sign of the bigger number.

9. The sum of $[(-101) - (29) + (-33) - (-84) + (68)]$

(A) -11

(B) +11

(C) +315

(D) -315

10. What is the additive inverse of 89?

(A) +89

(B) -89

(C) +98

(D) -98

11. Identify whether 2, 3, 5, 6 are Positive or negative integers?

12. Which are Greater from -8, -10

13. The smallest negative integer is -1 (T/F)

14. Subtract (-8) from (-15)

15. 0 is greater than all negative Integers (T/F)

16. The predecessor of x is x-1 (T/F)

17. Fill in the Blanks with >, < or = sign.

$(-5) + (-8) \underline{\hspace{1cm}} (-2)$

18. Fill in the box $-10 - (-18) \boxed{\hspace{1cm}} -10 - (+18)$

(A) >

(B) <

(C) =

(D) None of them

19. Which numbers lie between -3 and -9 and which is the greatest and the smallest among them?

(A) -3, -4, -5, -6, -7, -8; Greatest number = -8; Smallest number = -3

(B) -4, -5, -6, -7, -8; Greatest number = -8; Smallest number = -7

- (C) -4, -5, -6, -7, -8, -9; Greatest number = -4; Smallest number = -9
(D) -4, -5, -6, -7, -8; Greatest number = -4; Smallest number = -8
20. The successor of x is $x+1$ (T/F)
21. Find the sum of -315, 114 and -36
22. The successor and predecessor of -20 is _____
(A) -21 and -19
(B) -19 and -18
(C) -19 and -21
(D) -22 and -21
23. The correct sequence of the numbers in ascending order is _____
(A) $0 < -1 < -2$
(B) $1 < -1 < 0$
(C) $-1 < 0 < 1$
(D) $-2 < -3 < -4$
24. What is the correct definition for integers?
(A) A set of whole numbers
(B) A set of whole numbers and natural numbers
(C) A set of negative and natural numbers
(D) A set of negative and whole numbers
25. According to the number line, -20 will be placed _____
(A) Towards the right of 0
(B) Towards the left of 0
(C) Anywhere on the number line
(D) No-where on the number line
26. Which is the number that is equal to its additive inverse?
(A) 1
(B) -1
(C) 0
(D) 100
27. The correct sequence in descending order is _____.
(A) $0 > 1 > 2$
(B) $0 > -1 > 1$
(C) $-1 > 1 > 2$
(D) $2 > -2 > -3$
28. The predecessor and successor of -123 areand.....respectively.
(A) -124, -125
(B) -124, -122
(C) -124, -123
(D) -125, -126
29. Which of following options represents situation given below, using appropriate signs (+/-) 'First a withdrawal of Rs 2,000, then a deposit of Rs 1,000 and then a deposit of Rs 5,000.'
(A) + Rs 2,000, - Rs 1,000, -Rs 5,000
(B) - Rs 2,000, - Rs 1,000, + Rs 5,000

(C) - Rs 2,000, + Rs 1,000, + Rs 5,000

(D) None of them

30. Given a pair of numbers '-14, -15', we know that _____

(A) -14 is on the left side of -15

(B) -15 is on the left side of -14

(C) The numbers can be anywhere on the number line.

(D) The following situation depends on which side of 0

31. The solution to '(-31) + (-56)' is _____.

(A) -87

(B) 87

(C) 24

(D) -24

32. What is the sum of '(+9)+(-6)+(-3)+(+5)+(-6)'?

(A) 1

(B) -1

(C) -29

(D) 29

33. What happens when we add positive and a negative integer?

(A) We add the numbers and put the sign of the bigger number

(B) We subtract the numbers and put the sign of the smaller number

(C) We subtract the numbers and put the sign of the any number

(D) We subtract the numbers and put the sign of the bigger number

34. What is the solution for $(-18) - (-18) + (-9) + (-3)$?

(A) -12

(B) -48

(C) +24

(D) +36

35. Find the value $(-8) - (-10)$

(A) 1

(B) 6

(C) 9

(D) 2

36. What do we find when we move towards the left of the number line?

(A) Numbers of increasing order

(B) Numbers of decreasing order

(C) Numbers of the same value as the preceding ones

(D) There are no numbers after 0

37. The value of $12/(-3)$ is-

(A) -4

(B) -3

(C) 4

(D) 3

38. Which numbers lie between -5 and -9 and which is the greatest and the smallest among them?

- (A) -6, -7 and -8 lie between -5 and -9. Among them, -6 is the greatest and -8 is the smallest.
- (B) -5, -6 and -7 lie between -5 and -9. Among them, -6 is the greatest and -7 is the smallest.
- (C) -7, -8 and -9 lie between -5 and -9. Among them -7 is the greatest and -9 is the smallest.
- (D) -5, -6, -7 and -8 lie between -5 and -9. Among them -5 is the greatest and -8 is the smallest.

39. Which of the following statement is true?

- (A) $(3)^5$ and $(5)^3$ are equal.
- (B) The cube of a negative integer is a positive integer.
- (C) Even power of an integer is positive.
- (D) Even power of an integer is negative.

40. Fill in the blank:

$$10 + 8 + \dots = -32$$

- (A) 14
- (B) -14
- (C) 50
- (D) -50

41. Which is greater between $(9 - 10) \times 11$ and $9 - 10 \times 11$?

- (A) $(9 - 10) \times 11$
- (B) $9 - 10 \times 11$
- (C) Both of them.
- (D) None of them.

42. Find the Value of a if $2 + a + 3a = -2$

43. The least negative integer among the following is-

- (A) -1
- (B) 0
- (C) -2
- (D) -7

44. Arrange the following integers in decreasing order.

$$-4, 7, 0, -2, 3, -6$$

- (A) 7, 3, 0, -2, -4, -6
- (B) -6, -4, -2, 0, 3, 7
- (C) 7, 3, 0, -1, -2, -4
- (D) -6, -4, -2, 0, 1, 2

45. While playing cards, Ram won Rs. 79 in the first game, lost Rs. 60 in the second game, again won Rs. 45 in the third game and finally lost Rs. 100 in the fourth game. Find his final loss or gain.

- (A) Loss of Rs. 36
- (B) Gain of Rs. 60
- (C) Loss of Rs. 50

(D) Gain of Rs. 50

46. The sum of two integers is 23. If one of the integers is -11, the other integer is-

(A) -34

(B) 34

(C) 33

(D) 35

47. If Δ is an operation such that for integers a and b

$a \Delta b = -a + b + (-2)$;

then $2 \Delta -4$ equals to

(A) -8

(B) -7

(C) -6

(D) 8

48. Simplification of $18 + [3 + \{7 - 8 + (6 - 5) + 3\} - 9]$ is

(A) 15

(B) -15

(C) 14

(D) 13

49. The product of $(-3) \times (-5) \times (-8) \times 6$ is.....

(A) -720

(B) 720

(C) 710

(D) -710

50. If we add -13 to the difference of -7 and 5. Then we have?

(A) -24

(B) -23

(C) -26

(D) -25

51. The absolute value of an integer is always greater thanor equal to

(A) 0, 1

(B) 1, 0

(C) -1, 1

(D) 0, 0

52. Which of the following statements is true?

(A) $4 > -5$

(B) $-3 > -2$

(C) $0 < -1$

(D) $3 > 4$

53. The product of unlike signs is always.....

(A) Positive.

(B) Negative.

(C) Neutral.

(D) None of them.

54. Which of the following statement is true?

- (A) (positive integer) \times (positive integer) = negative integer
- (B) (negative integer) \times (positive integer) = positive integer
- (C) (negative integer) \times (negative integer) = positive integer
- (D) (negative integer) - (positive integer) = positive integer

55. Which of the following statements is false?

- (A) Every positive integer is greater than zero.
- (B) Every negative integer is less than zero.
- (C) 1 is the smallest positive integer.
- (D) In 2^8 , 8 is the base and 2 is the exponent.

56. The value of $(1)^2 + (-1)^3 - (2)^2 + (-1)^{46}$ is-

- (A) -5
- (B) -6
- (C) -3
- (D) -8

57. On subtracting -17 from -25, we get-

- (A) 8
- (B) -8
- (C) 7
- (D) -7

58. $1+3-5+7-9+11-13=?$

- (A) -5
- (B) -6
- (C) -4
- (D) -7

59. $-5 \times -4 = \dots\dots$

- (A) -20
- (B) 20
- (C) Both of them.
- (D) None of them.

60. The additive inverse of -29 is.....

- (A) 28
- (B) 27
- (C) 29
- (D) 26

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61. Define Integers and types of integers

62. Draw a number line and represent the following number

- (a) +8
- (b) -10

63. Find the sum of

- (a) -315, 14 and 36

(b) -52, 17 and 32

64. Fill in the Blanks with >, < or = sign.

$$\underline{(-3) + (-6) \quad \quad (-3) - (-6)}$$

65. Subtract (-4) from (-10)

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66. Using number line add: $(-2) + 7 + (-9)$

67. Simplify: 81 of $[59 - (7 \times 8 + (13 - 2 \text{ of } 5))]$

68. Verify $19 \times [7 + (-3)] = 19 \times 7 + 19 \times (-3)$

69. Find : $1 - 2 + 3 - 4 + 5 - 6 + \dots + 19 - 20$

70. Fill in the blanks

(i) $\underline{-6 + \quad = 0}$

(ii) $\underline{19 + \quad = 0}$

(iii) $\underline{\quad - 215 = -64}$

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71. For the statements, write true (T) and (F)

1) The smallest integer is zero ()

2) -18 is greater than -5 ()

3) A positive integer is greater than its negative ()

4) The successor of -297 is -298 ()

5) The predecessor of -193 is -194 ()

72. Find the value of a in each of the following

(i) $\underline{1 + a = 0}$

(ii) $\underline{a + 7 = 0}$

(iii) $\underline{-4 + a = 0}$

(iv) $\underline{a + (-8) = 0}$

(v) $\underline{a + 0 = 0}$