

EXERCISE

OBJECTIVE TYPE

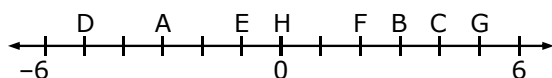
- Q.1** Which statement is true?
 (A) The sum of two negative integers is positive integer.
 (B) The sum of a negative integer and a positive integer is always integer.
 (C) The sum of two negative integers is a negative integer.
 (D) The sum of three different integers can never be zero.
- Q.2** Which sum is not negative?
 (A) $-38 + (-24)$ (B) $-61 + 43$ (C) $-53 + 72$ (D) $-25 + 0$
- Q.3** A car was driven 50 km due north of Delhi and then 70 km due south. How far from Delhi was the car finally?
 (A) 120 km due south (B) 20 km due North
 (C) 120 km due North (D) 20 km due South
- Q.4** Find an integer a such that $a + (-4) = 0$.
 (A) 0 (B) 4 (C) -4 (D) none of these
- Q.5** The sum of two integers is 45. If one of them is -23 , the other is :
 (A) 68 (B) 22 (C) -68 (D) -22
- Q.6** If p and q are two integers such that p is the predecessor of q , then $p - q$ is equal to
 (A) 1 (B) 0 (C) 2 (D) -1
- Q.7** If A and B represent two integers other than zero, then $|A| + |B| - |B| - |A|$
 (A) may be negative (B) may be positive
 (C) may be 0 (D) must be 0
- Q.8** If A and B represent two integers other than zero, the $|A| + |B|$
 (A) must be negative (B) must be positive
 (C) must be 0 (D) may be 0
- Q.9** The integer 5 less than -18 is
 (A) -13 (B) -23 (C) 12 (D) 13
- Q.10** The negative always lie to the _____ of positive integers on number line.
 (A) right (B) left
 (C) at the middle point (D) none of these
- Q.11** What should be added in -5 to get -8 ?
 (A) -13 (B) -3 (C) 3 (D) 13
- Q.12** What should be subtracted from -6 to get -4 ?
 (A) -2 (B) 0 (C) 2 (D) -10
- Q.13** -2 lies to the right of which of these numbers?
 (A) 0 (B) -3 (C) 3 (D) -1
- Q.14** If $1 + a = 0$, then $a =$:
 (A) -1 (B) 0 (C) 2 (D) -2
- Q.15** How many integers lie between -5 and 2 ?
 (A) 5 (B) 2 (C) 7 (D) 6

- Q.16** $3 - 5 = 3 + ()$, then $() =$
 (A) 5 (D) - 5 (C) 2 (D) - 2
- Q.17** The predecessor of - 5 is :
 (A) - 6 (B) 4 (C) - 4 (D) 0
- Q.18** The sum of $2 + (- 2) + 2 + (- 2) + \dots$
 (if the number of terms are 50) is :
 (A) 2 (B) - 2 (C) 100 (D) 0

SUBJECTIVE TYPE

- Q.1** Represent the integers on the number line.
 (i) - 7 (ii) 12 (iii) - 10 (iv) 0
 (v) 9 (vi) - 3

- Q.2** Given below is a number line representing integers.
 Mark and write the integers corresponding to the following points.



- (i) A (ii) B (iii) C (iv) D
 (v) E (vi) F (vii) G (viii) H

Which of the following points represent a pair of opposites ?

- Q.3** (i) Write all the integers between -9 and 13 and are odd.
 (ii) Write all the integers between -20 and 1 that are divisible by 4.
- Q.4** Draw a number line and answer the following questions:
 (i) Which number shall we reach if we move 3 numbers to the right of -4 ?
 (ii) Which number shall we reach if we move 6 numbers to the left of 1.
 (iii) If we are at -2 on the number line, in which direction shall we move to reach 7 ?
 (iv) If we are at 6 on the number line, in which direction shall we move to reach -11?
- Q.5** Arrange the following sets of integers in ascending order:
 (i) 6, 9, -4, -5, 0, 10
 (ii) 456, 654, 645, -564, -465, +546
- Q.6** Arrange the following sets of integers in descending order:
 (i) 0, -26, 42, -50, 64, 4, -3
 (ii) -106, -601, 116, -160, 161, -611
- Q.7** Evaluate:
 (i) $|-5| + |-3|$ (ii) $|-7| \times |-2|$
 (ii) $|17| - |-15|$ (iv) $|7 - 3| \times |5 - 5|$
- Q.8** Find the least integer that could replace the in \square order to make the sentence
 $|16 + 8| - |D| + |-7| = 6$ true.
- Q.9** Write the successor of each of the following.
 (i) 6 (ii) -1 (iii) 0
 (iv) -100

Q.10 Find the sum:

- (i) $200 + (-55) + (-77) + (-68)$
- (ii) $1393 + (-407) + (-872) + 690$
- (iii) $703 + (-3) + (-1) + 1 + (-400) + 0$
- (iv) $2000 + 516 + (-517) - 1999$

Q.11 Find :

- (i) $-8 - 11$
- (ii) $-9 - (-12)$
- (iii) $0 - (-45)$

Q.12 Write the predecessor of each of the following

- (i) 5
- (ii) -3
- (iii) -100
- (iv) 0

Q.13 A hotel in Greenland is made entirely of ice. The outside temperature is -35°C and the inside temperature of a room is -10°C . What is the difference between the inside and outside temperature ?

Q.14 Using the number line, write the integer which is :

- (i) 2 more than 5
- (ii) 4 more than - 2
- (iii) 8 less than 3
- (iv) 2 less than - 3

Q.15 Write the following integers in an increasing order:

- (i) 6, - 6, - 1, 0, 9
- (ii) -22, 13, 0, -5, -99, - 2
- (iii) -16, 16, - 362, - 500, 166
- (iv) -364, -514, 103, 414, -6

Q.16 Write the following integers in a decreasing order :

- (i) 0, 8, -2, 10, -131, 37
- (ii) 50, -54, - 9, 0, -3
- (iii) -72, - 82, 35, 0, -6
- (iv) -366, -516, 101, 412, -8

Q.17 Find the additive inverse of :

- (i) -57
- (ii) 183
- (iii) 0
- (iv) -105

Q.18 Subtract:

- (i) 19 from -36
- (ii) - 25 from 35
- (iii) -38 from -34
- (iv) 86 from -73
- (v) 12 from 0
- (vi) -29 from 0

Q.19 Replace * by '<' or '>' in each of the following so that the statement is true :

- (i) $(-6) + - (9) * (-6) - (-9)$
- (ii) $(-12) - (-12) * (-12) + (-12)$
- (iii) $(-20) + (-20) * 20 - 65$

Q.20 Fill in the blanks :

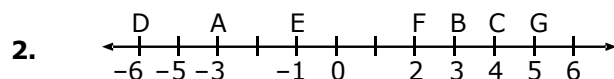
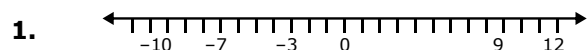
- (i) $(-7) + \underline{\hspace{2cm}} = 0$
- (ii) $15 + \underline{\hspace{2cm}} = 0$
- (iii) $15 + (-15) \underline{\hspace{2cm}}$
- (iv) $(-5) + \underline{\hspace{2cm}} = -13$

ANSWER KEY

OBJECTIVE :

- | | | | |
|-------|-------|-------|-------|
| 1. C | 2. C | 3. D | 4. B |
| 5. A | 6. D | 7. D | 8. B |
| 9. B | 10. B | 11. B | 12. A |
| 13. B | 14. A | 15. D | 16. B |
| 17. A | 18. D | | |

SUBJECTIVE :



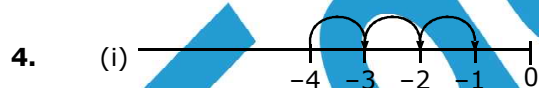
A = -3 B = 3
C = 4 D = -5
E = -1 F = 2
G = 5 H = 0

3. (i) -7, -5, -3, -1, 1, 3, 5, 7, 9, 11, → odd integers between -9 and 13

(ii) Integers between

-20 and 1 = -19, -18, -17, -16, -15, -14, -13, -12, -11, -10, -9, -8, -7, -6, -5, -4, -3, -2, -1

Divisible by 4 = -16, -12, -8, -4



We will reach to -1



We will reach -6 if we move 8 numbers to the left of -5

(iii) Right

(iv) Left

5. (i) $-5 < -4 < 0 < 6 < 9 < 10$
(ii) $-564 < -546 < -465 < 456 < 645 < 654$
6. (i) $64 > 42 > 4 > 0 > -3 > 26 > -50$
(ii) $161 < 116 > -106 > -160 > 601 > -611$

7. (i) $|-5| + |3| = 5 + 3 = 8$
 (ii) $|-7| \times |-2| = 7 \times 2 = 14$
 (iii) $|17| - |-15| = 17 - 15 = 2$
 (iv) $|7 - 3| \times |5 - 5| = 4 \times 0 = 0$
8. $|16 \div 8| - |x| + |-7| = 6$
 $|2| - |x| + 7 = 6$
 $2 - x + 7 = 6$
 $9 - x = 6$
 $x = 3$
 -3 could replace the square in order to make sentence true
9. (i) 7 (ii) 0 (iii) 1 (iv) -99
10. (i) 0 (ii) 804 (iii) 300 (iv) 0
11. (i) -8 -11
 (ii) $-9 - (-12)$
 $-9 + 12 = 3$
 (iii) $0 - (-45) = 45$
12. (i) $5 - 1 = 4$ (ii) $-3 - 1 = -4$
 (iii) $-100 - 1 = -101$ (iv) $0 - 1 = -1$
13. 25°C
14. (i) 7 (ii) 2 (iii) -5 (iv) -5
15. (i) -6 -1, 0, 6, 9
 (ii) -99, -22, -5, -2, 0, 13
 (iii) -500, -362, -16, 16, 166
 (iv) -514, -364, -6, 103, 414
16. (i) 37, 10, 8, 0, -2, -131
 (ii) 50, 0, -3, -9, -54
 (iii) 35, 0, -6, -72, -82
 (iv) 412, 101, -8, -366, -516
17. (i) +57 (ii) -183 (iii) 0 (iv) +105
18. (i) -55 (ii) 60 (iii) 4 (iv) -159
 (v) -12 (vi) 29
19. (i) < (ii) > (iii) >
20. (i) 7 (ii) -15 (iii) 0 (iv) -8

EXERCISE

1. The additive inverse of -7 is
(A) 7 (B) 0
(C) -5 (D) -6
2. 2 less than -6 is
(A) -8 (B) -4
(C) 4 (D) None of these
3. The sum of two integers is -17. If one of them is 12 then the other is
(A) 29 (B) -29
(C) -5 (D) 5
4. The sum of the two integers is 23. If one of them is -7 then the other is
(A) -30 (B) 16
(C) -16 (D) 30
5. 4 more than -7 is
(A) -11 (B) -3
(C) 3 (D) 11
6. $9 \times (-16) + (-12) \times (-16) = ?$
(A) 48 (B) -48
(C) 54 (D) -54
7. $(-12) \times 7 + (-12) \times (-4) = ?$
(A) 32 (B) -32
(C) -36 (D) 36
8. The sum of two integer is 65. If one of them is -47 what is the other number?
(A) 112 (B) -112
(C) 18 (D) -18
9. The difference of two integer is -27. If one of them is 32 then what is the other?
(A) -59 (B) 59
(C) 5 (D) -5
10. From the sum of 33 and -47, -84 is subtracted. What is the result?
(A) 70 (B) -70
(C) 94 (D) -94
11. $[37 - (-6)] + [11 - (-32)] = ?$
(A) 86 (B) 74
(C) -86 (D) -74
12. The sum of two integers is -27. If one of them is 265 then what is the other?
(A) 292 (B) -292
(C) 238 (D) -238
13. Subtract the sum of -1070 and 813 from it
(A) 294 (B) *294
(C) 272 (D) -274
14. What is the successor of -99?
(A) -100 (B) -98
(C) 100 (D) 98
15. What is the predecessor of -79?
(A) -78 (B) -80
(C) 78 (D) 80
16. What is the sum of -23, 62, -57 and 13?
(A) -5 (B) 5
(C) 15 (D) -15
17. What is additive inverse of -100?
(A) 100 (B) 0
(C) -1 (D) 1
18. $5 + (-2) + (-7) + 6 = ?$
(A) 2 (B) -2
(C) 3 (D) -3
19. $-2 + (-7) + 3 + (6) + (-9) + 11 = ?$
(A) 4 (B) -2
(C) 2 (D) -4
20. If -5 is added to 12 and result is subtracted from -7. Which number is obtained?
(A) -5 (B) 0
(C) 14 (D) -14
21. Amir had Rs 28760 in his bank account and his wife Laxmi has a debt of Rs 12380. What was their combined net balance?
(A) Rs 16380 (B) Rs. 14380
(C) Rs 15380 (D) Rs 17380
22. What is the value of $|-5 - 26 + 17|$?
(A) -14 (B) 14
(C) 48 (D) -48
23. What should be added to 57 to obtain -797
(A) -136 (B) 136
(C) -22 (D) None of these
24. Subtract -2473 from the difference of 5396
(A) 27 (B) 4773
(C) 4973 (D) 4873
25. What we will get when -49 is added to the difference of 72 and -997
(A) 76 (B) -76
(C) -21 (D) 122
26. What is the value of $1 + (-473) + (-375) + (-383) + (-283) + 1700$
(A) 187 (B) 287
(C) 286 (D) 186

27. The sum of two integers is -307. If one of them is -173 what is the other?
 (A) 134 (B) -134
 (C) 144 (D) -134
28. What is the value of $(-705) + 487 + (-317) + (265)$?
 (A) 270 (B) -270
 (C) 370 (D) -370
29. Find the sum of predecessor of (-1709) and the successor of (-2305)
 (A) 4014 (B) -4014
 (C) 594 (D) None of these
30. Find the difference of negative of highest three digit number and smallest four digit number.
 (A) 1 (B) -1999
 (C) 1999 (D) None of these

ANSWER

1. A 2. A 3. B 4. D
 5. B 6. A 7. C 8. A
 9. B 10. A 11. A 12. B
 13. A 14. B 15. B 16. A
 17. A 18. A 19. C 20. D
 21. A 22. B 23. A 24. C
 25. D 26. A 27. B 28. A
 29. B 30. C

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