

CLASS-VII-MATHEMATICS

SET- B

1. Sum of two integers is 93. If one of them is -59 , the other is equal to:
- (A) 34 (B) -34
(C) 152 (D) -152
2. The value of $(-66 \div 11) + 6$ is equal to:
- (A) 0 (B) 1
(C) 2 (D) 3
3. When a negative integer is multiplied by a negative integer and then divided by a positive integer, (which exactly divides the number). Then, the result will be a:
- (A) Negative integer (B) Positive integer
(C) Either (A) or (B) (D) None of these
4. Product of two fractions is equal to:
- (A) $\frac{\text{product of numerators}}{\text{product of denominators}}$
(B) $\frac{\text{product of denominators}}{\text{product of numerators}}$
(C) product of numerators \times product of denominators
(D) none of these
5. Reciprocal of a proper fraction is a/an
- (A) proper fraction (B) improper fraction
(C) whole number always (D) none of these
6. Which one of the following is true?
- (A) $0.05 > 0.5$ (B) $0.7 < 0.5$
(C) $0.88 > 0.8$ (D) $0.88 < 0.8$
7. For the data 2, 4, 6, 8, 8, 9, 10, the statement which is true is
- (A) Mean = Mode = Median (B) Mean $<$ Mode = Median
(C) Mean $>$ Mode = Median (D) None of these
8. The set of numbers for which the mean, median and mode all have the same value is
- (A) 2, 2, 2, 2, 4 (B) 1, 3, 3, 3, 5
(C) 1, 1, 2, 5, 6 (D) 1, 1, 1, 2, 5
9. If the numbers 2, 5, 8, 10, 16, a, 20, 25, 30, 34 are in ascending order and a is prime number, then the mean of the given numbers is
- (A) 15 (B) 16.7
(C) 16.9 (D) data insufficient

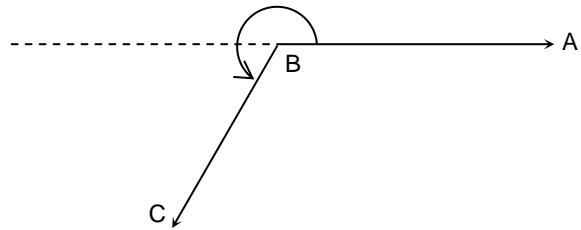
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10. Sachin scored twice as many runs as Saurav. Together their runs fell two short of a double century. The runs scored by each of them, are equal to:
- (A) 130, 68 (B) 128, 70
(C) 132, 66 (D) 131, 67
11. If one fifth of a number exceeds one-seventh of the same by 10, then the number is equal to:
- (A) 350 (B) 175
(C) 150 (D) 165
12. The highest marks obtained by a student in Mathematics is twice the lowest marks plus 7. If the highest score is 87, lowest score is equal to:
- (A) 40 (B) 20
(C) 45 (D) 30
13. After 12 years I shall be 3 times as old as I was 4 years ago. Then my present age is equal to:
- (A) 12 yrs (B) 18 yrs
(C) 24 years (D) 30 yrs
14. A line segment has
- (A) two end points (B) one end point
(C) three end points (D) none of these
15. A ray has only
- (A) one end point (B) two end points
(C) three end points (D) none of these
16. Two angles are said to be supplementary if the sum of their measures is
- (A) 90° (B) 180°
(C) 360° (D) none of these
17. The sides of triangle are 5cm, 6cm and 7cm. One more triangle is formed by joining the mid-points of the sides. The perimeter of the second triangle is
- (A) 18cm (B) 12cm
(C) 9cm (D) 6cm

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18. Angle ABC in the following figure is a/an:

- (A) acute angle
- (B) obtuse angle
- (C) reflex angle
- (D) straight angle



19. The sum of the angles of a triangle is equal to

- (A) 180°
- (B) 360°
- (C) 90°
- (D) 150°

20. The number of independent measurements required to construct a triangle is

- (A) 2
- (B) 3
- (C) 4
- (D) 5

21. The point of intersection of external bisectors of two angles of a triangle and the internal bisectors of the third angle is called

- (A) excentre
- (B) incentre
- (C) centroid
- (D) circumcentre

22. A triangle can be drawn only when the sum of any two sides is _____ than the third side.

- (A) greater
- (B) lesser
- (C) equal
- (D) none of these

23. The centroid divides the median in the ratio of _____ from the side of a triangle

- (A) 3 : 2
- (B) 2 : 3
- (C) 2 : 1
- (D) 1 : 2

24. The sum of two numbers is $\frac{-1}{3}$. If one of the numbers is $\frac{-12}{3}$, then the other is equal to:

- (A) $\frac{11}{3}$
- (B) $\frac{11}{13}$
- (C) $\frac{-11}{3}$
- (D) $\frac{-11}{13}$

25. The negative of $\frac{-16}{13}$ is

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(A) $\frac{16}{-13}$

(B) $\frac{-16}{-13}$

(C) $\frac{-16}{13}$

(D) $\frac{13}{16}$

26. Every rational number when multiplied with 0 gives

(A) 0

(B) 1

(C) -1

(D) none of these

27. Multiplicative inverse of 0 is

(A) 1

(B) 0

(C) -1

(D) not exist

28. Two numbers are in the ratio 5 : 8. If their difference is 48, find the numbers

(A) 90, 138

(B) 80, 128

(C) 70, 118

(D) none of these

29. Fourth proportional to 23, 115, 2.7 is

(A) 12

(B) 13

(C) 13.5

(D) 11

30. If one dozen pencils cost Rs. 21, then cost of one score is

(A) Rs. 35

(B) Rs. 40

(C) Rs. 45

(D) Rs. 51

31. If 6 bowls cost Rs 90, then be the cost of 10 bowls is equal to:

(A) Rs. 100

(B) Rs. 150

(C) Rs. 200

(D) Rs. 50

32. The value of $(2x + 3y) + (2x - 3y)$ is

(A) $4x + 6y$

(B) $4x - 6y$

(C) $4x$

(D) $6y$

33. The value of $(5a - 5b) - (2a + 3b)$ is

(A) $3a + 8b$

(B) $3a + 5b$

(C) $3a - 8b$

(D) $3a - 5b$

34. The numerical coefficient of $-2.7x^2y^2$ is

(A) 2.7

(B) x^2y^2

(C) $-x^2y^2$

(D) -2.7

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35. $\left(-\frac{1}{5}\right)^3 \div \left(-\frac{1}{5}\right)^8$ is equal to

(A) $\left(-\frac{1}{5}\right)^5$

(B) $\left(-\frac{1}{5}\right)^4$

(C) $(-5)^5$

(D) $\left(\frac{1}{5}\right)^5$

36. $\frac{4^{19}}{(4^{19})^2}$ is equal to

(A) 2^{642}

(B) 2^{644}

(C) 2^{646}

(D) none of these

37. $\frac{2^{72}}{8^{23}}$ is equal to

(A) 2^2

(B) 2^3

(C) 2^4

(D) none of these

38. In a right prism, the angle between the lateral edge and its base is

(A) 30°

(B) 60°

(C) 90°

(D) 0°

39. Which of the following is a polyhedron?

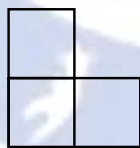
(A) sphere

(B) cylinder

(C) cube

(D) cone

40. A figure is constructed from unit cubes. Each cube shares at least one face with another cube. What is the minimum number of cubes needed to build a figure with the front and side views shown?



Front view



Side view

(A) 3

(B) 4

(C) 5

(D) 6

41. The length of a rectangle is increased by 20% and its breadth is decreased by 20%. What is the change in its area?

(A) 20% increase

(B) 20% decrease

(C) no change

(D) 4% decrease

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42. In a parallelogram ABCD, $AB = 4\text{cm}$ and $BC = 7\text{cm}$. Each of its diagonals is less than
- (A) 5 cm (B) 6 cm
(C) 7 cm (D) 11 cm
43. The area of a square field is 0.25 hectare. The length of its diagonal is _____.
- (A) 50 m (B) $50\sqrt{2}$ m
(C) 100 m (D) 150 m
44. The integer which should be multiplied to (-25) to give 200, is equal to:
- (A) 4 (B) -4
(C) 8 (D) -8
45. If median and mean of a given data is 10 and 8 respectively, then their mode is equal to
- (A) 13 (B) 12
(C) 15 (D) 14

