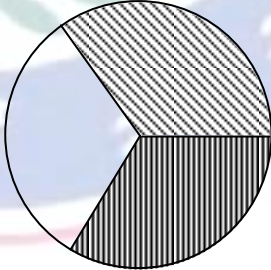


CLASS-VII-MATHEMATICS**SET- A**

1. 0 (Zero) is an integer which is:
- (A) Positive (B) Negative
(C) Either positive or negative (D) Neither positive nor negative
2. If $x \div 25 = 0$, then the value of x is equal to:
- (A) 25 (B) 50
(C) 0 (D) 1
3. The statement which is true out of the following is:
- (A) $-11 > -8$ (B) $-11 < -8$
(C) -11 and -8 can not be compared (D) none of these
4. Of the following, the improper fraction is:
- (A) $\frac{7}{4}$ (B) $\frac{3}{5}$
(C) $\frac{8}{9}$ (D) $\frac{15}{25}$
5. Equivalent fraction of $\frac{4}{5}$ is:
- (A) $\frac{16}{5}$ (B) $\frac{4}{25}$
(C) $\frac{16}{20}$ (D) $\frac{5}{4}$
6. The shaded portion of the picture represents the fractions is equal to:
- (A) $\frac{1}{3}$
(B) $\frac{2}{3}$
(C) $\frac{3}{2}$
(D) none of these
- 
7. Sum of the given numbers of a given data is 100 and mean is 4, then the number of observations of given data is
- (A) 20 (B) 30
(C) 25 (D) None of these
8. The median of first 100 whole numbers is equal to

INTERNATIONAL TALENT SEARCH EXAMINATION 2024 - 2025

- (A) 50
(C) 48
- (B) 49.5
(D) 50.5

9. Laxmi's father is 49 years old. He is 4 years older than three times Laxmi's present age, and then Laxmi's age is equal to:

- (A) $17\frac{2}{3}$ yrs
(C) 25 yrs
- (B) 15 yrs
(D) none of these

10. Amit says that he has 7 marbles more than five times the marbles Dibakar has. If Amit has 37 marbles, then number of marbles Dibakar has:

- (A) 6
(C) 12
- (B) $\frac{44}{5}$
(D) 4

11. Rahul's age after 15 years will be 5 times his age 5 years back. The present age of Rahul is equal to:

- (A) 3 yrs
(C) 7 yrs
- (B) 5 yrs
(D) 10 yrs

12. Identify which of the following pairs of angles are complementary

- (A) 65° , 115°
(C) 112° , 68°
- (B) 63° , 27°
(D) none of these

13. Identify which of the following pairs of angles are supplementary

- (A) 63° , 27°
(C) 65° , 115°
- (B) 45° , 45°
(D) none of these

14. The two angles cannot be supplementary if both of them are

- (A) acute
(C) right
- (B) obtuse
(D) Both (A) and (B)

15. The sum of the acute angles of an obtuse-angled triangle is 70° and their difference is 10° . The largest angle is

- (A) 110°
(C) 100°
- (B) 105°
(D) 95°

16. In a right-angled triangle, the square of the hypotenuse is twice the square of the other sides, then the triangle is

INTERNATIONAL TALENT SEARCH EXAMINATION 2024 - 2025

- (A) equilateral
(C) scalene
- (B) isosceles
(D) none of these
17. The approximate value of $\angle A$ in $\triangle ABC$ if $8\angle A = 9\angle B = 4\angle C$ is:
- (A) 46°
(C) 48°
- (B) 47°
(D) 49°
18. The point of concurrence of medians in a triangle is called
- (A) circumcentre
(C) orthocentre
- (B) centroid
(D) incentre
19. In which type of triangles medians and altitudes are represented by the same line segments
- (A) isosceles triangle
(C) equilateral triangle
- (B) scalene triangle
(D) none of these
20. The point equidistant from the sides of a triangle which is inside is called
- (A) excentre
(C) centroid
- (B) orthocentre
(D) incentre
21. The rational number which should be subtracted from $-\frac{3}{5}$ to get -2 , is equal to:
- (A) $-\frac{7}{5}$
(C) $\frac{13}{5}$
- (B) $-\frac{13}{5}$
(D) $\frac{7}{5}$
22. The sum of two rational numbers is -8 . If one of the numbers is $-\frac{15}{7}$, then the other number is equal to:
- (A) $\frac{41}{7}$
(C) $-\frac{41}{7}$
- (B) $\frac{40}{7}$
(D) $\frac{7}{14}$
23. If $\frac{-5}{3} - x = \frac{5}{6}$, then the value of x is equal to:
- (A) $\frac{5}{2}$
(C) $\frac{2}{5}$
- (B) $-\frac{5}{2}$
(D) $-\frac{15}{3}$

INTERNATIONAL TALENT SEARCH EXAMINATION 2024 - 2025

24. If a, b, c, d are in continued proportion, then $(a - b)^3 : (b - c)^3$ is equal to?
- (A) $a : b$ (B) $a - b : c - a$
(C) $a : d$ (D) none of these
25. A train traveling at 60 km/h passes through a tunnel 850 m long, then how long a passenger traveling by the train remains inside the tunnel
- (A) 17 sec (B) 34 sec
(C) 51 sec (D) 68 sec
26. The value of $12x - 5$ at $x = \frac{1}{8}$
- (A) $-\frac{1}{3}$ (B) $-\frac{7}{2}$
(C) 1 (D) $\frac{1}{2}$
27. The value of $\frac{n(n+1)(2n+1)}{6}$ at $n = 5$ is
- (A) 14 (B) 30
(C) 55 (D) 86
28. If $\frac{5x-4}{6x-4} = \frac{4}{5}$ then $x = ?$
- (A) 1 (B) 2
(C) 3 (D) 4
29. 2250 is equal to
- (A) $2^2 \times 3^2 \times 5^2$ (B) $2^2 \times 3^2 \times 5^3$
(C) $2 \times 3^2 \times 5^3$ (D) $2 \times 3^3 \times 5^2$
30. $\left(\frac{2}{3}\right)^4 \times \left(\frac{2}{3}\right)^2$ is equal to
- (A) $\frac{64}{81}$ (B) $\frac{64}{729}$
(C) $\frac{32}{724}$ (D) $\frac{32}{81}$
31. If $\left(\frac{3}{5}\right)^{-16} = \left(\frac{5}{3}\right)^{8x}$, then x is equal to
- (A) $-1/2$ (B) $1/2$
(C) -2 (D) 2

INTERNATIONAL TALENT SEARCH EXAMINATION 2024 - 2025

32. Polygons forming a polyhedron are called.
- (A) edges (B) faces
(C) vertices (D) lines
33. Points of intersection of edges of a polyhedron are called
- (A) edges (B) faces
(C) vertices (D) lines
34. In a rectangle ABCD, the diagonal AC = 10cm, then the other diagonal BC is
- (A) 10 cm (B) 8 cm
(C) 6 cm (D) none of these
35. The diagonal of rectangle is 50cm, its breadth is 30 cm then the perimeter is
- (A) 70 cm (B) 160 cm
(C) 140 cm (D) 90 cm
36. If angle of the sector is 90° , then the area of the sector is
- (A) $\frac{1}{5}$ area of circle (B) $\frac{1}{4}$ area of circle
(C) $\frac{1}{3}$ area of circle (D) $\frac{1}{2}$ area of circle
37. 2, 8, 6, 7, 8, 9, 19, 8, 2, 4, 6, 8, 9, then
- (A) Median = Mode (B) Median > Mode
(C) Median < Mode (D) None of these
38. If 7 kg rice costs Rs. 115.50, what is the cost of 12kg rice?
- (A) Rs. 198 (B) Rs. 200
(C) Rs. 210 (D) Rs. 225
39. In a prism, side faces are
- (A) square (B) rectangle
(C) parallelogram (D) triangle
40. 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

INTERNATIONAL TALENT SEARCH EXAMINATION 2024 - 2025

(D) none of these

41. An angle is greater than 45° , its complementary angle is

(A) greater than 45°

(B) equal to 45°

(C) less than 45°

(D) none of these

42. If one angle of a triangle is equal to the sum of the other two, the triangle is

(A) isosceles

(B) equilateral

(C) right-angled

(D) scalene

43. Find the zero of polynomial $\frac{3}{2}x + 5$

(A) $-\frac{3}{10}$

(B) $-\frac{10}{3}$

(C) $\frac{10}{3}$

(D) $\frac{3}{10}$

44. $\frac{4^3 \times 3^5 \times (-5)^5}{6^2 \times 10^2}$ is equal to

(A) 13500

(B) 11500

(C) -11500

(D) -13500

45. Number of square pieces of side 5cm that can be cut from a paper 40cm long and 25cm broad is:

(A) 40

(B) 34

(C) 26

(D) 15

