INTERNATIONAL TALENT SEARCH EXAMINATION

2024 – 2025 PRACTICE PAPER

Class – 6 (Mathematics)

(Set – A)

1. If $4300731 - x = 2535619$, then the value of x equal to:

   (A) 1865113 (B) 1775123

   (C) 1765112 (D) 1675123

2. Sum of even and odd number is

   (A) always even (B) always odd

   (C) may be even or odd (D) cannot say anything

3. Find the value of $51 \times 53 - 53 \times 51$

   (A) 2 (B) 0

   (C) 215 (D) None of these

4. Which of the following is even and prime?

   (A) 4 (B) 6

   (C) 8 (D) 2

5. Ansh's mother is 5 times of his present age. After three years his mother's age will be 4 more than 3 times of his age. Ansh's present age is equal to

   (A) 7 years (B) 9 years

   (C) 5 years (D) $\frac{5}{2}$ years

6. The total surface area of a cube is 726 m^2. Find its edge.

   (A) 8 m (B) 9 m

   (C) 11 m (D) 12 m

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7. When three or more lines pass through the same point, the lines are

(A) concurrent line (B) collinear

(C) straight line (D) none of these

8. On a hike, girl guides walked $1\frac{1}{2}$ km before refreshment and $\frac{3}{4}$ km after refreshment. The total distance covered by them is

(A) $2\frac{1}{4}$ km (B) $4\frac{1}{2}$ km

(C) 9 km (D) 9.4 km

9. What decimal of an hour is a second ?

(A) 0.0025 (B) 0.0256

(C) 0.00027 (D) 0.000126

10. The ratio of boys and girls in a school is 12 : 5. If the number of girls be 840, then total strength of the school is

(A) 1190 (B) 2380

(C) 2856 (D) 2142

11. Unorganized data is called:

(A) raw data (B) statistics

(C) information (D) none of these

12. Each side of an equilateral triangle is 8.5 cm. Its perimeter is

(A) 17 cm (B) 34 cm

(C) 25.5 cm (D) 42.5 cm

13. The centre of rotation of a parallelogram is point of intersection of the

(A) perpendicular bisectors of opposite sides (B) diagonals

(C) angular bisectors of opposite angles (D) bisectors of opposite sides

14. By how much is three-fifth of 350 greater than four-seventh of 210?

(A) 95 (B) 110

(C) 120 (D) 90

15. H.C.F of two numbers is

(A) greatest common factor (B) lowest common divisor

(C) highest common multiple (D) lowest common factor

16. $P = 23 \times 7$, $Q = 22 \times 8$, $R = 21 \times 9$ which option is correct?

(A) $P > Q > R$ (B) $P > Q < R$

(C) $P < Q < R$ (D) $P < Q > R$

17. Which number will we reach if we move 4 numbers to the right of -2 on number line?

(A) 2 (B) 3

(C) 4 (D) 5

18. The difference of two numbers is 10. If one less than twice of smaller number is equal to the larger one. Then, the larger number is

(A) 11 (B) 22

(C) 21 (D) 20

19. If the radius of a sphere 2 cm, find the volume of sphere

(A) $\frac{4\pi(2)^3}{3}$ (B) $\frac{4\pi(2)^2}{3}$

(C) $\frac{4\pi(2)}{3}$ (D) None of these

20. If a transversal intersects two lines, and two lines will be parallel, then one pair of alternate interior angles is …….

(A) Unequal (B) 180^0

(C) Equal

(D) None of these

21. By what number should $2\frac{3}{5}$ be multiplied to get $1\frac{6}{7}$

(A) $1\frac{5}{7}$

(B) $\frac{5}{7}$

(C) $1\frac{1}{7}$

(D) $\frac{1}{7}$

22. The value of (1 + 0.1 + 0.01 + 0.001) is

(A) 1.001

(B) 1.011

(C) 1.003

(D) 1.111

23. The sides of a triangle are in the ratio 3 : 4 : 5. If its perimeter is 120cm, then length of its largest side is

(A) 40 cm

(B) 50 cm

(C) 36 cm

(D) 54 cm

24. The sum of 20 observations is 500, then the mean is:

(A) 15

(B) 20

(C) 25

(D) 30

25. A wall is 5.4 m long and 4.5 m wide. Its area is

(A) 23.4 sq. m

(B) 24.3 sq. m

(C) 25 sq. m

(D) 19.8 sq. m

26. Which of the following has no line of symmetry?

(A) F

(B) U

(C) Y

(D) M

27. $\frac{3}{8}$ is what part of $\frac{1}{12}$?

(A) $\frac{3}{7}$ (B) $\frac{1}{12}$

(C) $\frac{4}{3}$ (D) $\frac{9}{2}$

28. A number divisible by 11, 13 and 17 is also divisible by

(A) 2413 (B) 2143

(C) 2431 (D) 2341

29. Find the value of $(24 \div 6) \div 7$

(A) $\frac{4}{7}$ (B) 28

(C) $\frac{8}{13}$ (D) $\frac{9}{22}$

30. Additive inverse of -6 is equal to:

(A) -6 (B) 6

(C) 0 (D) none of these

31. If $\frac{4}{5}$ of a number exceeds its $\frac{2}{3}$ by 8. The number is

(A) 30 (B) 45

(C) 90 (D) 60

32. If the base radius and height of a right circular cone are 3 cm and 4 cm in length, then the slant height is

(A) 5 cm (B) 6 cm

(C) 7 cm (D) 10 cm

33. If two lines are intersected by a transversal, then they are parallel if

(A) Sum of one pair of corresponding angles is 180^0

(B) Sum of one pair of interior alternate angles is 180^0.

(C) Sum of one pair of exterior alternate angles is 180^0

(D) The sum of two interior angles on the same side of the transversal is 180^0

34. By what number should $1\frac{1}{2}$ be divided to get $\frac{2}{3}$

(A) $2\frac{2}{3}$ (B) $1\frac{2}{3}$

(C) $\frac{4}{9}$ (D) $2\frac{1}{4}$

35. $\frac{1}{0.04}$ is equal to

(A) $\frac{1}{40}$ (B) $\frac{2}{5}$

(C) 2.5 (D) 25

36. In covering 222 km, a car consumes 12 litres of petrol. How many kilometers will it go in 10 litres of petrol?

(A) 172 km (B) 185 km

(C) 205 km (D) 266.4 km

37. The range of 12 observations is 60. If the least observations is 90, then find the greatest observation.

(A) 130 (B) 140

(C) 150 (D) 160

38. The area of a circle whose radius is 5cm is equal to:

(A) $15.7cm^2$ (B) $78.5cm^2$

(C) $31.4cm^2$ (D) none of these

39. The number of lines of symmetry of a regular hexagon is

(A) 1 (B) 3

(C) 6 (D) 8

40. $2\frac{3}{4} \div \left(2\frac{2}{3} \div 1\frac{1}{12}\right)$ is equal to:

(A) $\frac{39}{48}$ (B) $1\frac{1}{4}$

(C) $\frac{169}{144}$ (D) none of these

41. If 7x8 is exactly divisible by 9, then the least value of x is

(A) 0 (B) 2

(C) 3 (D) 5

42. P ÷ Q = P, find the value of Q

(A) P/2 (B) P

(C) 1 (D) none of these

43. $-51 \times 9 + 15 \times 9$ is equal to:

(A) 224 (B) -324

(C) 324 (D) -224

44. If $\frac{2m+5}{3}$ = 3m – 10 then value of m is equal to

(A) 7 (B) 5

(C) – 5 (D) – 7

45. If the slant height of a cone is 10 cm and height 8 cm. Find the radius of a cone?

(A) 6 cm (B) 8 cm

(C) 10 cm (D) 7 cm