LOGICAL REASONING

1. Look at this series: 22, 21, 23, 22, 24, 23, . . . What number should come next?

   a) 22   b) 24   c) 25 ✓   d) 26

2. Piya draws 2 circles on the first page, 4 on the second page, 6 on the third page and 8 on the fourth page. If this pattern continues, then how many circles will she draw on the fifth page?

   a) 10 ✓   b) 14   c) 12   d) 202

3. Arrange in alphabetical order: Pencil, Eraser, Compass, Sharpener

a) Compass, Eraser, Pencil, Sharpener ✓

b) Pencil, Eraser, Compass, Sharpener

c) Eraser, Compass, Sharpener, Pencil

d) Sharpener, Pencil, Eraser, Compass

4. Arrange the places in increasing area: Country, Continent, State, City

a) City, State, Country, Continent ✓

b) State, City, Continent, Country

c) City, Country, State, Continent

d) Continent, Country, State, City

5. You are solving a pattern and the sequence is: 2, 4, 8, 16, _. But your friend says the answer is 18. What is the most logical action?

 a) Believe your friend

 b) Follow the pattern and double the last number ✓

 c) Choose a random number

 d) Ask the teacher to change the question

6. Which of the following shows a number where the sum of the digits equals 15?

  a) 753   b) 942   c) 681   d) 561 ✓

7. Which number is exactly halfway between 470 and 490?

  a) 475   b) 480 ✓   c) 485   d) 478

8. Which coin has the highest value?

  a) ₹1   b) ₹2   c) ₹5   d) ₹10 ✓

9. What is the smallest-4digit number using digits 4, 0, 7, 1 (each once)?

  a) 1047 ✓   b) 1074   c) 4017   d) 1407

10. Which number has 2 at hundreds place, 5 at tens place, and 0 at ones place?

  a) 250 ✓   b) 205   c) 520   d) 502

11. 1 hour = how many minutes?

  a) 30   b) 60 ✓   c) 90   d) 100

12. Which pair gives a sum greater than 999 but less than 1,100?

  a) 450 + 550   b) 600 + 600

  c) 523 + 478 ✓   d) 789 + 432

13. How many books in total? (Books in stacks: 98, 103, 89)

  a) 292   b) 300   c) 290 ✓   d) 293

14. How many more marbles in Jar A (678) than Jar B (489)?

  a) 199   b) 189 ✓   c) 209   d) 200

15. What is the sum of the greatest 3 digit number and smallest 4 digit number?

  a) 1,999 ✓   b) 2,000   c) 1,998   d) 1,900

16. Choose the incorrect subtraction:

  a) 900 − 450 = 450   b) 1,000 − 200 = 800

  c) 500 − 400 = 200 ✓   d) 875 − 875 = 0

17. Which 3D shape cannot roll?

  a) Cylinder   b) Sphere   c) Cube ✓   d) Cone

18. How many edges does a cube have?

    a) 6   b) 8   c) 12   d) 10

19. Which of the following shapes has no corners and no edges?

    a) Sphere   b) Cylinder   c) Cone   d) Cube

20. Which object is shaped like a sphere? (Dice, Ball, Cone, Cylinder)

    a) Dice   b) Ball   c) Cone   d) Cylinder

21. Which of the following is NOT a multiple of 6?

    a) 18   b) 24   c) 26   d) 30

22. What is the product of the smallest and largest single digit numbers?

    a) 0   b) 8   c) 9   d) 72

23. Which option shows the correct multiplication pattern?

    a) $4 \times 2 = 6$ b) $5 \times 0 = 0$

    c) $9 \times 1 = 10$ d) $8 \times 3 = 24$

24. Find the missing number: $8 \times \underline{} = 64$

    a) 6   b) 7   c) 8   d) 9

25. Which of the following statements is true?

    a) $10 \times 10 = 1000$ b) $11 \times 11 = 111$

    c) $12 \times 12 = 144$ d) $9 \times 9 = 81$

26. How many cupcakes in total? (6 trays with 9 cupcakes each)

    a) 54   b) 56   c) 63   d) 45

27. How many toys altogether? (4 boxes with 12 toys each)

    a) 48   b) 36   c) 40   d) 50

28. Which set contains only even numbers?

    a) 4, 6, 9   b) 2, 8, 10   c) 1, 3, 7   d) 5, 10, 13

29. Select the number that makes this statement true: "An even number + an odd number = ___"

    a) Always even   b) Always odd   c) Could be either   d) Always zero

30. How many boxes contain an even number of stars? (2, 5, 4, 7, 6)

    a) 2   b) 3   c) 4   d) 1

31. How many odd numbers from 1 to 20?

    a) 9   b) 10   c) 8   d) 11

32. Find the next even number after 98.

    a) 99   b) 100   c) 101   d) 102

33. Which of the following numbers is NOT odd?

   a) 13   b) 21   c) 42 ✓   d) 17

34. Which set contains only even numbers?

   a) 4, 6, 9   b) 2, 8, 10 ✓   c) 1, 3, 7   d) 5, 10, 13

35. True or False: The sum of two odd numbers is always even.

   a) True ✓   b) False

36. If you buy a pen for ₹10 and give ₹20, how much will you get back?

   a) ₹5   b) ₹10 ✓   c) ₹15   d) ₹20

37. A shape with 3 sides is called:
   a) Circle   b) Triangle ✓
   c) Square   d) Rectangle

38. Which comes next: ● ▲ ● ▲ ___

   a) ● ✓   b) ▲   c) ■   d) ■

39. Opposite of "Heavy" is:

   a) Strong   b) Tall   c) Light ✓   d) Weak

40. The next number in the pattern: 2, 4, 6, 8, ___

   a) 9   b) 10 ✓   c) 11   d) 12

41. All sides of a square are:

   a) Equal ✓   b) Unequal
   c) Long   d) Short

42. A glass can hold 250 ml of water. Two such glasses hold?

   a) 250 ml   b) 500 ml ✓   c) 750 ml   d) 1000 ml

43. You have ₹10 and buy a pencil for ₹6. How much is left?

   a) ₹2   b) ₹4 ✓   c) ₹6   d) ₹10

44. If it is 3:00 now, what will be the time after 2 hours?

   a) 4:00   b) 5:00 ✓   c) 6:00   d) 3:30

45. How many hours are there in a day?

   a) 12   b) 24 ✓   c) 60   d) 100

46. Which one is the multiple of 6?

   a) 15   b) 18 ✓   c) 13   d) 20

47. Which of the following is the correct sum: 45 + 27 =?

   a) 62   b) 72 ✓   c) 74   d) 71

48. If you add 100 to 299, you get:

   a) 399 ✓   b) 3990   c) 200   d) 398

49. What is the sum of the digits in 123?

   a) 5   b) 6   c) 7   d) 8 ✓

50. How many tens are there in 80?

   a) 8 ✓   b) 80   c) 10   d) 100