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FOUNDATION**

**CLASS
6**

LEVEL - 1

Set A1

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HMM17

* # See prospectus/website for details

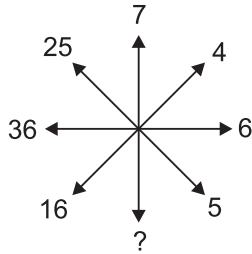
ROUGH WORK

Instructions for the Candidate

1. You are allowed additional 10 minutes to fill the required details in the RESPONSE SHEET (OMR).
2. The question paper is made as per syllabus guidelines & pattern given in the information Booklet. The Question Paper for Classes 1 to 6 contains 40 Questions each to be answered in 60 minutes. The Question paper for classes 7 to 12 contains 60 Questions each to be answered in 60 minutes. All questions are compulsory. Further instructions are given in the instruction letter to the teacher.
3. Use the response sheet to mark your responses by darkening the required circle. The response sheet has to be returned to the foundation, duly filled in. **THE STUDENT CAN RETAIN THE QUESTION PAPER.**

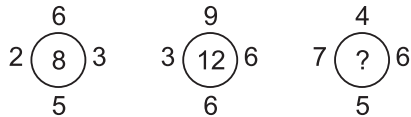
MENTAL ABILITY

1. Which number will replace the **question mark** in the following?



- (1) 7
- (2) 14
- (3) 49
- (4) none of these

2. Which number will come in the **third circle**?



- (1) 9
- (2) 10
- (3) 11
- (4) None of these

3. If 10×2 means 5, $10 \div 4$ means 14, $10 + 4$ means 6 and $10 - 4$ means 40 then $10 \times 5 \div 4 + 3 - 2 = ?$

- (1) 4
- (2) 0
- (3) 2
- (4) None of these

4. Aryan is 18th from either end of a row of boys? How many boys are there in that row?

- (1) 35
- (2) 24
- (3) 32
- (4) None of these

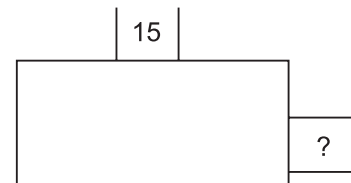
5. 'Kilogram' is related to 'Quintal' in the same way as 'Paisa' is related to

- (1) Coin
- (2) Money
- (3) Rupee
- (4) None of these

6. What is the 15th term of the series 12233334444455555.....?

- (1) 5
- (2) 6
- (3) 7
- (4) None of these

7. When the number is put into the given machine, a different number comes out. If 6 goes in, 1 comes out. If 9 goes in, 4 comes out. If 12 goes in 7 comes out.



If 15 goes in, what number should come out?

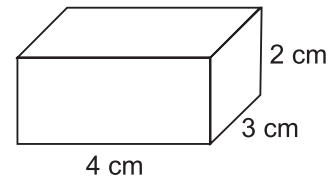
- (1) 5
- (2) 10
- (3) 7
- (4) None of these

8. A pack of 12 pens costs Rs.60. How much does 1 pen cost?

- (1) 5
- (2) 6
- (3) 10
- (4) None of these

9. A boy started from his home. After walking 5 km towards east, he turned to his right and walked for 8 km. Then he again turned to his right and walked for 10 km. In which direction was he from his house?
- (1) North
 (2) West
 (3) South-West
 (4) None of these

10. What is the volume of this cuboid?



- (1) 6 cm^2
 (2) 24 cm^2
 (3) 24 cm^3
 (4) None of these

MATHEMATICS

11. In 7,358, what digit is in the **thousands** place?

- (1) 7 (2) 3
 (3) 5 (4) None of these

12. A jewellery company ordered 7 boxes of glass beads. There were 81 beads in each box. How many glass beads did the jewellery company order?

- (1) 88 beads (2) 7 beads
 (3) 567 beads (4) None of these

13. The product of $2 \times 5 \times 13$ is

- (1) 20 (2) 130
 (3) 10 (4) None of these

14. Which digit makes this statement true?

337, 55__ is divisible by 2.

- (1) 2 (2) 5
 (3) 7 (4) None of these

15. Which number is a factor of 9?

- (1) 3 (2) 7
 (3) 4 (4) None of these

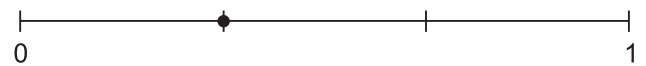
16. In 9.57, which digit is in the **tenths** place?

- (1) 9 (2) 5
 (3) 7 (4) None of these

17. If 200,000 is the result when 35,100 is rounded to the nearest hundred thousand, what could be the missing digit?

- (1) 3 (2) 2
 (3) 9 (4) None of these

18. What fraction does the number line show?



- (1) $\frac{3}{3}$ (2) $\frac{1}{2}$
 (3) $\frac{1}{3}$ (4) None of these

19. Find the missing number that makes these fractions equal:

$$\frac{4}{\square} = \frac{1}{2}$$

- (1) 8 (2) 4
 (3) 2 (4) none of these

20. Which integer represents this scenario?

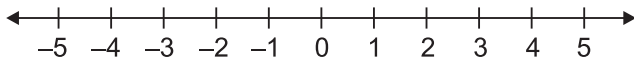
Adding 5 stuffed animals to a collection

- (1) 5 (2) -5
 (3) 10 (4) None of these

21. Which words make this statement true?

$$-4 \quad \underline{\hspace{1cm}} \quad -2$$

It may help to locate the points on a number line.



- (1) is greater than (2) is less than
 (3) is equal to (4) none of these

22. What is the ratio of rectangles to total shapes?



- (1) 2:3 (2) 3:2
 (3) 2:5 (4) None of these

23. Anmol buys 10 plastic straws. Each plastic straw costs ₹ 0.30. How much does Anmol spend?

- (1) ₹ 30.0 (2) ₹ 3.0
 (3) ₹ 300 (4) None of these

24. Find the elapsed time.

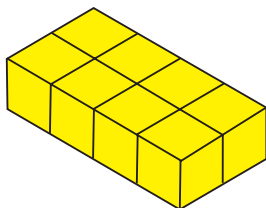
Start: 8:15 A.M.
End: 10:00 A.M.

- (1) 1 hr 45 min (2) 2 hrs 10 min
 (3) 1 hr 55 min (4) None of these

25. How many days are in a leap year?

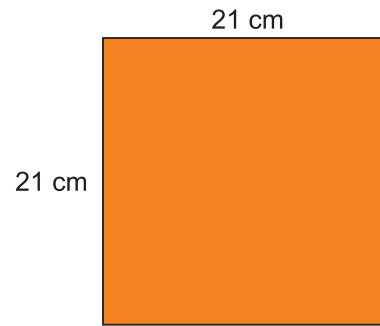
- (1) 364 (2) 365
 (3) 366 (4) None of these

26. What is the volume of this object?



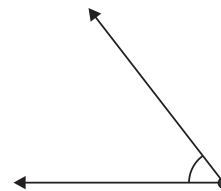
- (1) 8 square units (2) 8 cubic units
 (3) 4 cubic units (4) None of these

27. What is the area of the given figure?



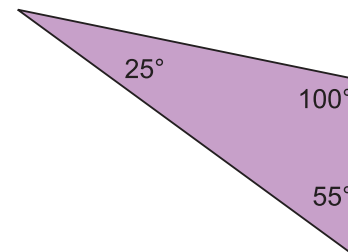
- (1) 84 cm² (2) 21 cm²
 (3) 441 square cm (4) None of these

28. Is this angle greater than, equal to, or less than a right angle?



- (1) Greater than a right angle
 (2) Equal to a right angle
 (3) Less than a right angle
 (4) None of these

29. What kind of triangle is this?



- (1) Obtuse (2) Right
 (3) Acute (4) None of these

30. At 3:00 PM the temperature was 25°C. At 4:00 PM the temperature was 31°C. Was it warmer, cooler or equal at 3:00 PM?

- (1) Warmer (2) Cooler
 (3) Equal (4) None of these

INTERACTIVE SECTION

31. Which of these lies between 6.3 and 6.6?

- (1) 6.2
- (2) 6.41
- (3) 6.05
- (4) None of these

32. Mehul has stamps of different countries. $\frac{1}{3}$ rd of them are India stamps. If he has 36 Indian stamps, how many stamps does he have in total?

- (1) 108
- (2) 36
- (3) 48
- (4) None of these



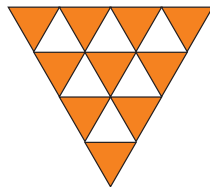
33. Firoz has 918 marbles. He wants to make packets of marbles, with 9 marbles in each packet. How many packets will he be able to make?

- (1) 12
- (2) 102
- (3) 120
- (4) None of these



34. What percentage of the area of the triangle below is shadowed? All triangles are equilateral.

- (1) 50%
- (2) 60%
- (3) 62.5%
- (4) None of these



35. You select a marble without looking and then put it back. If you do this 10 times, what is the best prediction possible for the number of times you will pick a white marble?

- (1) 6
- (2) 5
- (3) 4
- (4) None of these



36. Pick a card and roll a die. How many outcomes are possible?



- (1) 10
- (2) 29
- (3) 12
- (4) None of these

Look at this pictograph and answer the following questions (37 – 39):

Running laps	
Perry	
Denelle	
Vince	
Ariel	
Wesley	
Edmond	
Each = 5 laps	

37. Who ran the **most** laps?

- (1) Ariel
- (2) Edmond
- (3) Wesley
- (4) None of these

38. Who ran the **least** laps?

- (1) Perry
- (2) Ariel
- (3) Wesley
- (4) None of these

39. Who ran **ten** laps?

- (1) Wesley
- (2) Perry
- (3) Ariel
- (4) None of these

40. Is the dotted line a line of symmetry?

- (1) Yes
- (2) No
- (3) Can't say
- (4) None of these



END OF THE EXAM