MODEL QUESTION PAPER

National Mathematics Olympiad

6TH CLASS

NMO

Instructions:

Total Duration:1.5 hours (90 minutes)
Total Marks:60

- The paper consists of four sections. Each question carries the same marks as mentioned in each section.
- There is no negative marking.

Section 1:

Arithmetic (20 marks)
Each question carries 4 marks.

1. Solve: \(234 + 567 - 89 \)
2. Multiply: \(23 \times 15 \)
3. Divide: \(144 \div 12 \)
4. Find the value of \(\frac{5}{8} \) of 64.
5. If a pen costs $15 and you buy 8 pens, how much will it cost in total?

Section B:

Geometry (15 marks)
Each question carries 3 marks.

6. Calculate the area of a rectangle with length 10 cm and width 5 cm.
7. What is the perimeter of a square with each side measuring 7 cm?
8. Name a three-dimensional shape with six square faces.
9. Draw and label an acute angle.
10. Calculate the area of a triangle with base 8 cm and height 6 cm.

Section C:

Data Handling (10 marks)
Each question carries 2 marks.

11. If there are 5 red balls, 7 blue balls, and 8 green balls in a bag, how many balls are there in total?
12. Represent the following data using a bar graph:
    - Apples: 10, Bananas: 15, Cherries: 5
13. Calculate the median of the numbers: 12, 15, 14, 10, 18.
14. Arrange the following numbers in ascending order: 23, 12, 45, 19, 30.
15. What is the mode of the numbers: 4, 6, 4, 8, 4, 7, 6?

Section D:

Logical Reasoning (15 marks)
Each question carries 3 marks.

16. Complete the series: 3, 6, 9, 12, ___
17. Choose the odd one out: 16, 25, 36, 48, 49
18. If $A = 5$, $B = 3$, and $C = 7$, find $A \times B + C$.
19. Which number comes next in the pattern: 2, 4, 8, 16, ___
20. If today is Wednesday, what day was it 5 days ago?

Answers:

1. 712
2. 345
3. 12
4. 40
5. $120
6. 50 cm^2
7. 28 cm
8. Cube
9. Acute angle (Answer may vary)
10. 24 cm^2
11. 20 balls
12. Bar graph representation
13. 14
14. 12, 19, 23, 30, 45
15. 4
16. 15
17. 48
18. 22
19. 32
20. Friday