

10th iOM'17

International Olympiad of Mathematics



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**SILVER
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NEW DELHI - INDIA

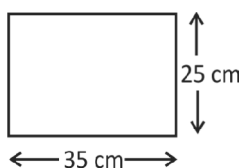
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**Mathematics Olympiad
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New Delhi, India
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CLASS : 6 (SYLLABUS & SAMPLE QUESTIONS)

Number Systems and Operations, Fractions and Decimals, LCM and HCF, Ratio & Proportion, Algebraic Expression, Line, Angles and Triangles, Perimeter, Area and Volume of Geometrical Figures, Data Handling, Symmetry, Applied Mathematics, Reasoning & Aptitude.

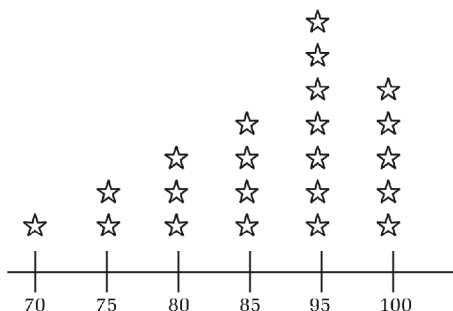
The Actual Question Paper Contains 50 Questions. The Duration of the Test Paper is 60 Minutes.

1. What would be the longest length of a stick which can measure the length of the boundary in exact number of times in the figure below?



- (A) 6 cm (B) 7 cm
(C) 5 cm (D) 8 cm
(E) None of these
2. The following pictograph shows how students scored in last week's Hindi test.

Hindi Test Scores

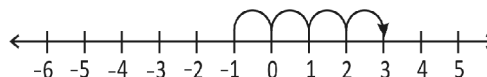


KEY : ☆ = 3 students

How many students scored more than 74 but less than 96 marks?

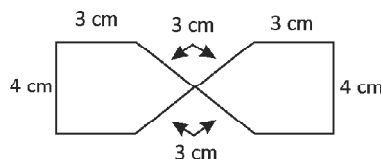
- (A) 44 students (B) 48 students
(C) 18 students (D) 21 students
(E) None of these

3. Write the statement for the integer which is represented on the following number line.



- (A) 4 more than -1
(B) 3 more than 5
(C) 5 less than 3
(D) 2 less than -3
(E) 5 less than 7
4. Which one of the following letters of English alphabet does not have any line of symmetry?
- (A) N (B) A
(C) B (D) All of these
(E) None of these

5. Find the perimeter of the given figure.

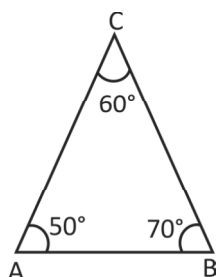


- (A) 40 cm (B) 41 cm
(C) 32 cm (D) 48 cm
(E) None of these

6. $13 + [-4 + \{5 + (3 \times 7 - 6)\} + 2] = ?$

- (A) 21 (B) 31
(C) 27 (D) 33
(E) None of these

7. Which one of the following is correct about the given triangle?



- (A) All angles are right angles
(B) All angles are obtuse angles
(C) The sum of the angles of the triangle is more than 180°

- (D) All angles are acute angles
(E) None of these

8. The speed of a bike is 56 km per hour and speed of a bus is 40 km per hour. Find the ratio of speed of bike to the speed of bus.

- (A) 5 : 7 (B) 7 : 5
(C) 4 : 9 (D) 2 : 5
(E) None of these

9. The LCM of two numbers is 192 and their HCF is 16. If one number is 48, then the other number will be:

- (A) 12 (B) 4
(C) 64 (D) 16
(E) None of these

10. Find the expression which is formed by 'fifth multiple of n is added with 17'.

- (A) 5th (B) $5n + 17$
(C) $5 + 17n$ (D) All of these
(E) None of these

ANSWERS

1. (C) 2. (B) 3. (A) 4. (A) 5. (C) 6. (B) 7. (D) 8. (B) 9. (C) 10. (B)