

# 7<sup>th</sup> iOM'14

## International Olympiad of Mathematics



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New Delhi, India

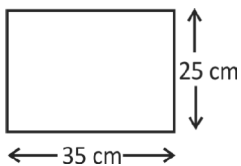
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### CLASS : 6 (SYLLABUS & SAMPLE QUESTIONS)

Number System and its Operation, Fractions and Decimals, LCM and HCF, Ratio, Proportion, Algebraic Expression, Line, Angles and Triangles, Perimeter, Area and Volume of Geometrical Figures, Symmetry, Applied Mathematics.

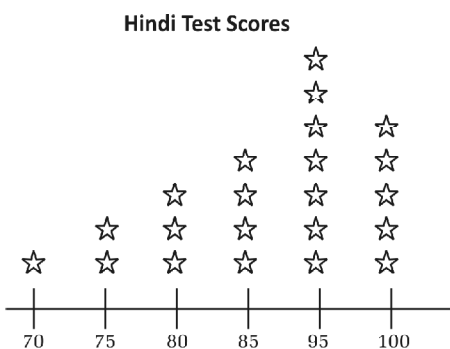
The Actual Question Paper Contains 40 Questions. The Duration of the Test Paper is 60 Minutes.

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.

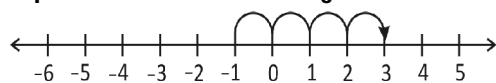


KEY : ☆ = 3 students

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.

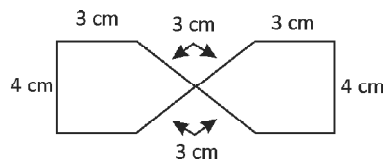


- (A) 4 more than -1  
(B) 3 more than 5  
(C) 5 less than 3  
(D) 2 less than -3  
(E) 5 less than 7

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.

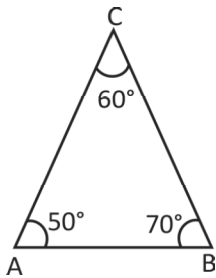


- (A) 40 cm                      (B) 41 cm  
(C) 32 cm                      (D) 48 cm  
(E) None of these

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

- (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  $180^\circ$

- (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 144 and their HCF is 8. If one number is 18, 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)