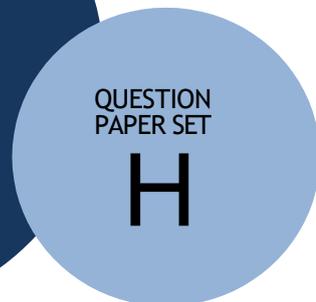


SCO INTERNATIONAL MATH
OLYMPIAD 2023-24



DO NOT OPEN THIS BOOKLET UNTIL ASKED TO DO SO

Guidelines for the Candidate

1. Before the exam begins, you will have an additional 20 minutes to complete the OMR Sheet with personal information.
2. On the OMR Sheet, clearly write your name, **school code, class, roll number, and mobile number..**
3. Four sections make up the question paper:

General Math (20 Questions), **Reason/Assertion** (5 Questions), **Case Study** (5 Questions) and **Achievers Section** (5 Questions). Each question in Achievers Section carries 2 marks, whereas all other questions carry one mark each.

Total Questions - 35

4. Every inquiry must be answered. There are no failing grades. Calculator use is not allowed.
5. There is just ONE right response. Select ONE response choice only.
6. Use only an HB pencil or a blue or black ballpoint pen to indicate your choice of responses by darkening the corresponding circles on the OMR Sheet. E.g.

Q.1: What is the capital of India?

- A. Kolkata B. Mumbai C. Delhi D. Chennai

You must shade the circle next to option C on the OMR Sheet since that is the right response.



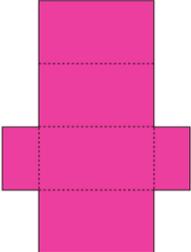
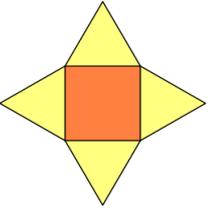
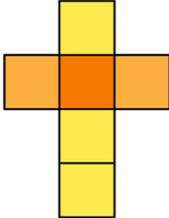
7. At the conclusion of the test, hand over the OMR Sheet to the Invigilator.
8. Before attempting the paper, kindly provide your personal information in the box provided on this page. .

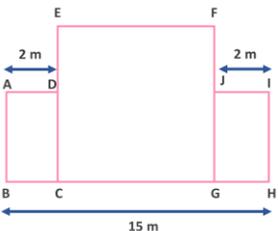


Name:.....

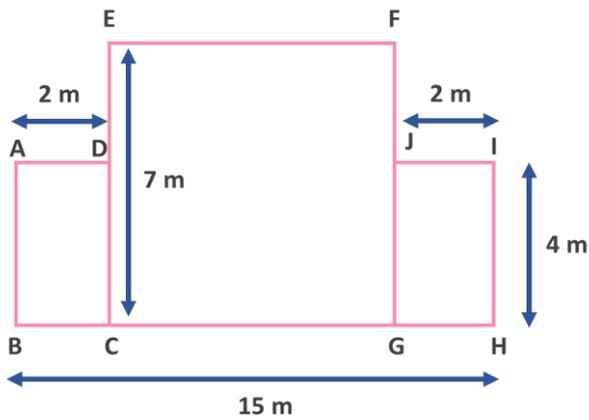
Registration ID.:..... Contact No.:.....

1.	Which of the following numbers is in the International Number System? A) 12,35,300 B) 3,234,300 C) 1,12,400 D) 4,32,305
2.	If the place value of 6 in 5602 is interchanged with the place value of 0 in the number, then the new number will be? A) 5620 B) 5026 C) 5062 D) 5206
3.	The number 643208 in expanded form will be: A) 600000+40000+3000+200+8 B) 6000+40000+3000+200+8 C) 600000+400+3000+200+8 D) 600000+40000+300+20+8
4.	We have the following numbers: a) 34,500 b) 12,204 c) 13,408 Which of these is nearest to 10,000? A) Only (a) B) Only (b) C) Only (c) D) Both (b) and (c)
5.	What largest 5-digit number can be formed using the digits 3, 2, 0, 8, 4? A) 84320 B) 83024 C) 83240 D) 84302
6.	Preeti has studied Mathematics using the Indian syllabus but her friend Sukhi has learnt using the Roman number system. Preeti wants to let her know the number '732' in the Roman number system. Which of these shows the correct representation of the same? A) CCXXXII B) DCCXXII C) DCCXXXII D) DCCXII
7.	The Roman number illustrated in the image is equivalent to?  A) 50 B) 45 C) 65 D) 80
8.	If we subtract 32 from 70, then what will be the value in Roman number system? A) XXXVIII B) XXVIII C) XVII D) XV
9.	Which number has no symbol in the Roman number system? A) 1 B) 10 C) 5 D) 0
10.	Which of these will be the first number if we arrange them in ascending order? XXII, XVIII, XXX, VII A) XVIII B) VII C) XXX D) XXII

11.	<p>Mohan, the gardener, plants roses in his square garden. He planted a total of 140 seeds and he wants 20 rose plants in each row. How many rows should he make to have such an arrangement?</p> <p>A) 8 B) 6 C) 7 D) 5</p>
12.	<p>Which number should be multiplied by 6 to get the value equal to (50 - 2)?</p> <p>A) 7 B) 6 C) 5 D) 8</p>
13.	<p>Which of these gives the greatest value?</p> <p>A) 7 times 5 B) 100 divided by 50 C) 12 times 4 D) 10 times 2</p>
14.	<p>If $30 : 15 :: 60 : \underline{\quad}$?</p> <p>A) 30 B) 15 C) 40 D) 45</p>
15.	<p>Which of the following is not divisible by 6?</p> <p>A) 1362 B) 4086 C) 1051 D) 720</p>
16.	<p>Which of the following is the net of a pyramid?</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>A)</p> </div> <div style="text-align: center;">  <p>B)</p> </div> <div style="text-align: center;">  <p>C)</p> </div> <div style="text-align: center;"> <p>D) None of these</p> </div> </div>
17.	<p>Identify the correct statement.</p> <p>a) A line segment has one end point. b) A ray travels in one direction. c) A line has both length and width. d) A ray never ends.</p> <p>A) Only (a) B) Only (b) C) (a), (b) and (c) D) (b) and (d)</p>

18.	<p>Find the correct match.</p> <p>a) Square - 4 Corners- 4 Diagonals b) Rectangle - 4 Corners - 2 Diagonals c) Triangle - 2 Corners - 0 Diagonal d) Circle - 7 Corners - 0 Diagonal</p> <p>A) Only (a) B) Only (b) C) Both (b) and (c) D) Only (d)</p>
19.	<p>Which figure has 0 sides?</p> <p>A) Square B) Triangle C) Circle D) Rhombus</p>
20.	<p>Rohan's father gave him some coins. He arranged them in a stack by placing all the coins one above the other.</p>  <p>Which 3-D shape does it represent?</p> <p>A) Cone B) Cube C) Sphere D) Cylinder</p>
21.	<p>Arhaan walks 3 rounds around a rectangular park. The length of the park is 30m and the breadth is half of the length. How many meters have been covered by Arhaan?</p> <p>A) 300m B) 270m C) 210m D) 420m</p>
22.	<p>Rakesh is fencing his square garden. Each side of his garden measures 70m and the cost of fencing per meter is Rs.3.50. If he gives Rs.1000 to the gardener for doing the fencing, then how much money will he get back in return?</p> <p>A) Rs.30 B) Rs.15 C) Rs.45 D) Rs.20</p>
23.	<p>Preeti is a fashion designer and she is making square shaped patches for her dress. Each patch has a length of 15cm. If she wants to make 40 such patches, what area of cloth will she need?</p> <p>A) 9000 sq. cm B) 3000 sq. cm C) 90 sq. cm D) 1500 sq. cm</p>
24.	<p>What will be the length of EF in the following figure?</p>  <p>A) 11 m B) 10 m C) 12 m D) 9 m</p>

25. What will be the perimeter of the given figure?



- A) 42 m B) 44 m C) 48 m D) 50 m

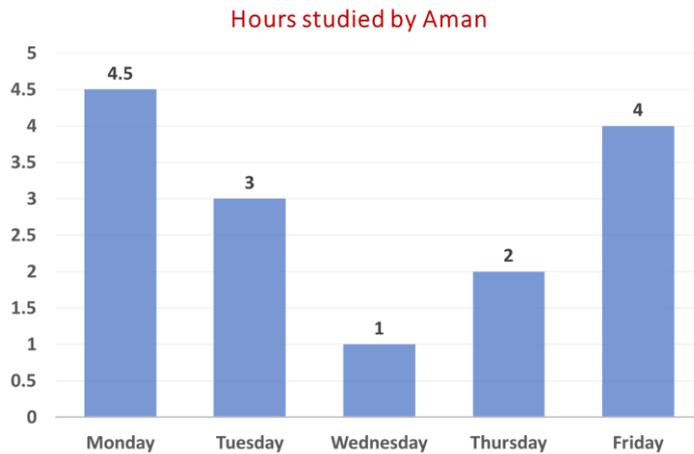
26. Study the pictograph properly.

Temperature of Delhi in a week	
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	
Sunday	
= 10 degrees	

Which day has the least temperature?

- A) Tuesday B) Sunday C) Saturday D) Thursday

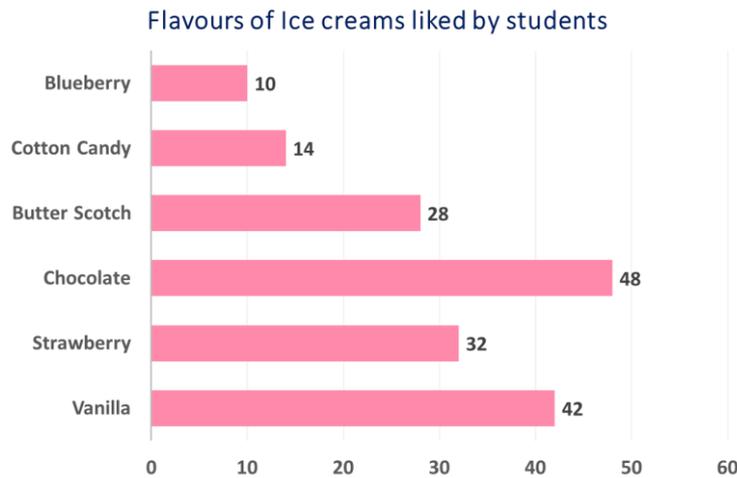
27. The chart below shows the number of hours studied by Aman.



What is the average of the hours studied by Aman in these 5 days?

- A) 3.5 hours B) 2.5 hours C) 3.8 hours D) 2.9 hours

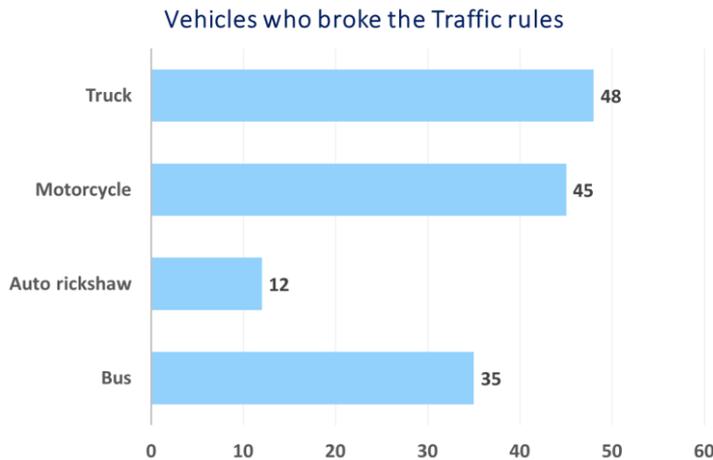
28. A poll was taken in the class by the class teacher to understand the favourite ice cream of students. There are a total of 50 students in the class.



The sum of the students who like Blueberry and Cotton Candy is how much less than the number of students who like Chocolate ice cream?

- A) 24 B) 28 C) 32 D) 30

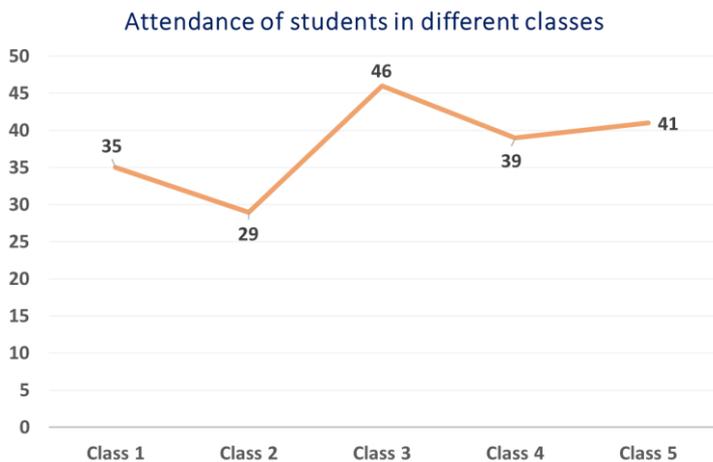
29. An automatic Challan was triggered for vehicles breaking the traffic rules. The report generated was based on this graph.



What is the difference in the number of Challans against Truck drivers and Bus drivers?

- A) 12 B) 14 C) 15 D) 13

30. There are 50 students in each class. The graph shows the number of students present in each class on Monday.



Which class has the least number of absentees?

- A) Class 1 B) Class 3 C) Class 4 D) Class 5

31. Suchita thinks of a decimal number where tenth digit is 2, hundredth digit is 5, tens digit is 3 more than the ones digit.

If the tens digit is 4, then what is the number thought by Suchita?

- A) 41.25 B) 14.25 C) 41.52 D) 14.52

32. What will be the simplest value of: $14.28 + 31.29 + 31.05 - 25.64 - 2.80$?

- A) 41.18 B) 45.80 C) 48.18 D) 42.18

33.	<p>Which one is greater?</p> <p>A) $41.35 + 0.25$ B) $41.2653 - 40$ C) $42.05 + 0.20$ D) $41.404 - 1$</p>
34.	<p>Priyanshu ate pizza for Rs. 124.90 (including taxes). He gave Rs. 200 at the counter. How much money should he ask for in return?</p> <p>A) Rs.70.05 B) Rs.72.40 C) Rs.75.10 D) Rs.76</p>
35.	<p>Kirti has Rs.14.50. Priyank gives her Rs.22.35 more and Sheetal gives her Rs.12 more. How much does Kirti have now? (Round it off to whole number)</p> <p>A) Rs.49 B) Rs.30 C) Rs. 15 D) Rs.20</p>

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