



SIMS[®]

(SCHOLARS INTEGRAL MATHS & SCIENCE OLYMPIADS-HYD)



BIGGEST STATE LEVEL OLYMPIAD : 2025-26

SIMO QUESTION PAPER : STAGE - I

MAX. MARKS : 90

TIME: 60 MIN.

NAME OF THE STUDENT :

HALL TICKET NUMBER :

NAME OF THE SCHOOL :

INSTRUCTIONS:

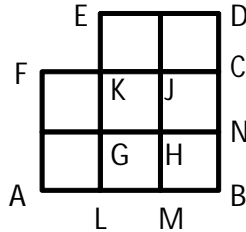
- ✦ This question paper contains 30 questions.
- ✦ First 25 questions (1 to 25) are single correct answer type. Each question carries 3 marks.
- ✦ Next 5 questions (26 to 30) are one or more than one correct answer type. Each question carries 3 marks.
- ✦ No negative marks.
- ✦ You have not allowed to use a calculator or any other electronic devices in the examination hall.
- ✦ Read the instructions given in the answer sheet(OMR sheet) before answering the questions.
- ✦ The answer sheet should be returned to the invigilator before leaving the examination hall (You can retain the question paper with you)
- ✦ Results will be available at www.simsolympiads.com

Single Correct Answer Type: **$25 \times 3 = 75$**

1. The sum of three consecutive whole numbers is 48.
The smallest of these numbers is _____.

1) 18 2) 15 3) 14 4) 12

2. How many squares are there altogether in this diagram ?



1) 8 2) 9 3) 10 4) 11

3. If three boxes weigh $2\frac{3}{5}$ kg, $5\frac{7}{8}$ kg and $3\frac{1}{10}$ kg, what is the total weight of the three boxes ?

1) $\frac{463}{40}$ kg 2) $\frac{453}{40}$ kg 2) $\frac{463}{44}$ kg 2) $\frac{623}{80}$ kg

4. What are the numerals that cannot be subtracted in Roman system ?

1) V, L and D 2) I, X and V 3) C and X 4) M and C

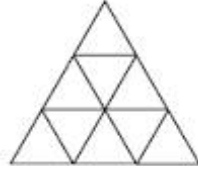
5. How many times does the digit 7 appear in numbers from 1 to 100 ?

1) 11 2) 19 3) 20 4) 21

6. Which of the following is the H.C.F of the numbers 20, 28 and 36 ?

1) 1260 2) 4 3) 5 4) 36

7. How many triangles are there in the given figure ?



- 1) 13 2) 10 3) 9 4) 12

8. Which of the following is the greatest negative integer ?

- 1) -100 2) -9 3) -1 4) 0

9. The denominator of a fraction is 3 more than its numerator. If 2 is added to both the numerator and the denominator, the new fraction is equivalent to $\frac{2}{3}$. What is the original fraction ?

- 1) $\frac{4}{7}$ 2) 4 3) $\frac{7}{4}$ 4) $\frac{3}{5}$

10. What is the decimal fraction shown by the shaded part of the figure given ?



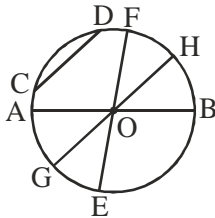
- 1) 2.5 2) 0.5 3) 0.6 4) 0.4

11. Which of the following is correct expanded form of 2.06 ?

- 1) $(2 \times 10) + \left(6 \times \frac{1}{10}\right)$ 2) $(2 \times 1) + \left(6 \times \frac{1}{100}\right)$
 3) $(2 \times 1) + \left(6 \times \frac{1}{10}\right)$ 4) $(2 \times 10) + \left(6 \times \frac{1}{100}\right)$

12. Subhash was given a task of removing all multiples of 2 and 3 from a set of numbers from 1 to 50. The number of the remaining numbers was:
- 1) 14 2) 18 3) 17 4) 33
13. Where will the hour hand of a clock stop if it starts from 6 and turns through one right angle ?
- 1) 7 2) 9 3) 8 4) 12
14. Which number is a factor of 20 but not a multiple of 2 ?
- 1) 12 2) 5 3) 4 4) 10
15. The sum of two integers is -35 . If one of them is 15, then the other one is _____.
- 1) $+20$ 2) -20 3) -50 4) $+50$
16. On Monday, Lavanya worked for 6.45 hr. ; on Tuesday 7.32 hr.; on Wednesday 5.1 hr. and on Thursday she worked 6.7 hr. How much total work did she do over the four days ?
- 1) 25.57 hr. 2) 34.47 hr. 3) 24.16 hr. 4) 25.42 hr.
17. If $x = \frac{6}{25}$ and $y = \frac{3}{5}$, then the value of $\frac{x}{y}$ is _____.
- 1) $\frac{6}{5}$ 2) $\frac{18}{125}$ 3) $\frac{2}{5}$ 4) $\frac{5}{2}$
18. If the L.C.M and the H.C.F of two numbers m and 20 are 40 and 4 respectively, then the value of m is _____.
- 1) 4 2) 40 3) 8 4) 16

19. The number of pieces of equal size can be cut from a rope of 45 m long, each measuring $3\frac{3}{4}$ m is _____.
- 1) 8 2) 10 3) 6 4) 12
20. 'More mega Store' gives customers four points for every ₹ 75 spent. Tency earned 36 points. How much did she spend at More mega Store ?
- 1) ₹ 375 2) ₹ 675 3) ₹ 450 4) ₹ 156
21. The number of zeros to be placed after 1 to make it a Million is _____.
- 1) 5 2) 4 3) 6 4) 8
22. The following number can be shown as a Rectangle.
- 1) 2 2) 5 3) 7 4) 6
23. Which of the following chords does not pass through the centre of the circle ?



- 1) \overline{AB} 2) \overline{EF} 3) \overline{GH} 4) \overline{CD}
24. At what time the two hands of a clock coincide ?
- 1) At 3` O clock in the evening
 2) At 4` O clock in the evening
 3) At 12 noon
 4) At 9` O clock in the morning

25. The value of $1 - (-1) + (-2)$ is _____.

- 1) 0 2) -2 3) 2 4) 4

One or more Correct Answer Type:

$5 \times 3 = 15$

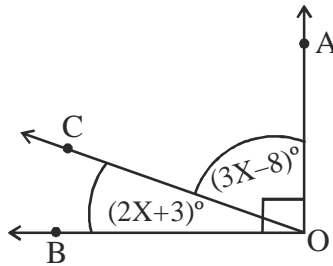
26. {41, p, q, r, s, 61, 67} is an arrangement of prime numbers in ascending order. Among the following which are the correct number ?

- 1) $s = 59$ 2) $q = 53$ 3) $p = 43$ 4) $r = 47$

27. Identify the false statement.

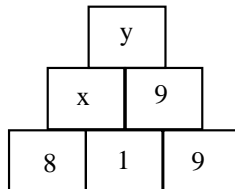
- 1) $-317 < 603$ 2) $-777 < -919$
 3) $-637 > 246$ 4) $-1027 > -688$

28. Find the values of $\angle AOC$ and $\angle COB$ in the given figure, where $\angle AOB = 90^\circ$.



- 1) $\angle AOC = 42^\circ$ 2) $\angle COB = 41^\circ$
 3) $\angle COB = 48^\circ$ 4) $\angle AOC = 49^\circ$

29. The values of x and y in the following multiplication number tower are



- 1) $x = 8$ 2) $y = 72$ 3) $x = 9$ 4) $y = 81$

30. Classify the fractions $7\frac{4}{5}$, $\frac{11}{8}$, $\frac{4}{9}$, $\frac{14}{14}$, $\frac{43}{7}$, $10\frac{2}{11}$, $\frac{2}{15}$ as
Proper fractions, Improper and Mixed fractions.

1) Proper fractions are $\frac{2}{15}$, $\frac{4}{9}$

2) Improper fractions are $\frac{11}{8}$, $\frac{43}{7}$, $\frac{2}{15}$

3) Mixed fractions are $7\frac{4}{5}$, $10\frac{2}{11}$

4) Improper fractions are $\frac{11}{8}$, $\frac{14}{14}$, $\frac{43}{7}$

*** **ALL THE BEST** ***

ROUGH WORK