SIMS®

(SCHOLARS INTEGRAL MATHS & SCIENCE OLYMPIADS-HYD)

GRADE VII

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 × 3 = 75

1. The number of positive even factors of 18 is:

1) 6 2) 5 3) 2 4) 3

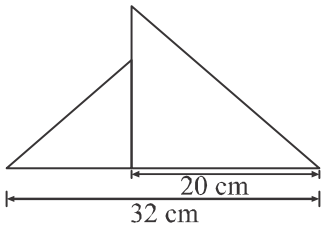
2. The sum of two numbers is 95. If one exceeds the other by 15, then the numbers are _____.

1) 75 and 20 2) 30 and 65 3) 30 and 45 4) 40 and 55

3. The range of the ordered data x, 32, 41, 62, 64, 71 is 45. Which of the following can be the value of x ?

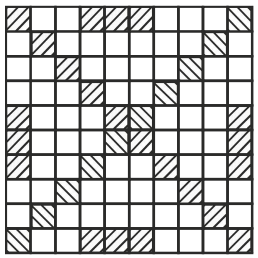
1) 32 2) 26 3) 48 4) 116

4. Two square napkins are folded in half and placed side by side as shown. Find the total area of the two napkins when they are unfolded ?



1) 272 cm^2 2) 544 cm^2 3) 640 cm^2 4) 1024 cm^2

5. The shaded part represents in the following figure is ____.



1) 0.32 2) 0.34 3) 0.31 4) 0.35

6. The sum of 40% of 70 and 70% of 40 is equal to _____.

1) 28 2) 56 3) 48 4) 220

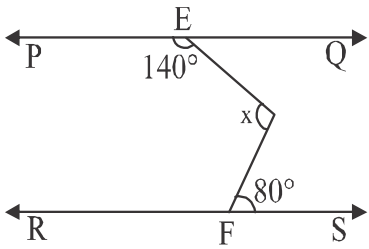
7. Priya when asked, told her teacher that she has completed 40 questions of $\frac{2}{3}$ of the question paper. How many more questions she has to do to complete the paper ?

1) 60 2) 40 3) 20 4) 10

8. 6 years ago, Gopal was $\frac{1}{7}$ of his father's age. If his father is 48 years old now, then find Gopal's age 6 years ago.

1) 13 yrs. 2) 8 yrs. 3) 7 yrs. 4) 6 yrs.

9. In the given figure, if PQ and RS are parallel lines, then the measure of $\angle x$ is _____.



1) 120° 2) 140° 3) 160° 4) 220°

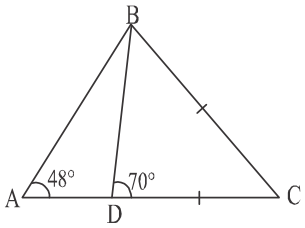
10. Mr. Ben bought 100 batteries at a cost of `2 each. He sold them at 4 for `10, then what is percentage of profit he made ?

1) 100% 2) 125% 3) 25% 4) 50%

11. If x : y = 4 : 5, then (4x+5y) : (5x–2y) is equal to

1) $\frac{41}{10}$ 2) $\frac{4}{5}$ 3) $\frac{16}{25}$ 4) $\frac{9}{3}$

12. In the given figure BC = CD. The measure of ∠ABC is ___.



1) 92° 2) 70° 3) 118° 4) 62°

13. The value of the expression 7–[13–{–2–6(6 of –5)}] is ___.

1) 180 2) 172 3) –172 4) 0

14. If $40 - \frac{1}{5} \times p = 0$, then the value of p is _____.

1) 8 2) $\frac{1}{5}$ 3) $\frac{199}{5}$ 4) 200

15. The arithmetic mean of first five prime numbers is ___.

1) 3 2) 5.2 3) 5.6 4) 6.5

16. The numerator of a non-zero rational number is 5 less than the denominator. If the denominator is increased by 8 and the numerator is doubled, then again we get the same rational number. The required rational number is

1) $\frac{1}{8}$ 2) $\frac{3}{8}$ 3) $\frac{4}{9}$ 4) $\frac{2}{8}$

17. If the angles $(2a–10)^o$ and $(a–11)^o$ are complementary, then the value of 'a' is _____.

1) 37^o 2) 27^o 3) 17^o 4) 7^o

18. The product of a non-zero rational number and its reciprocal is _____.

1) 0 2) 1 3) –1 4) 2

19. The following records for Javelin throw (in m) were recorded between the years 2006 to 2015.

59.78 m, 69.52 m, 69.96 m, 70.08 m,
71.88 m, 72.4 m, 74.2 m, 74.76 m.

The median of the data is _____.

1) 14.98 m 2) 70.98 m 3) 70.32 m 4) 71.82 m

20. $\left(1-\frac{1}{2}\right)\left(1-\frac{1}{3}\right)\left(1-\frac{1}{4}\right)\left(1-\frac{1}{5}\right)\left(1-\frac{1}{6}\right)\left(1-\frac{1}{7}\right)$ **=_____.**

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

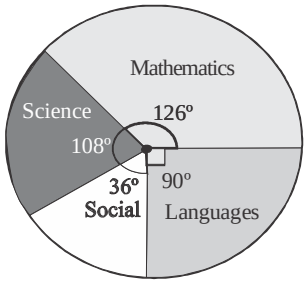
21. The sum of the additive inverse and multiplicative inverse of an integer 2 is _____.

1) $-\frac{3}{2}$ 2) $\frac{3}{2}$ 3) $\frac{5}{2}$ 4) 0

22. If the sum of three consecutive even numbers is 234, then which is smallest among them ?

1) 80 2) 38 3) 76 4) 78

23. A school has a strength of 2000 students. The given pie chart shows the interest of students in different subjects. What is the number of students interested in Mathematics ?



1) 500 2) 700 3) 600 4) 200

24. If 3, 18, x, and 42 are in proportion, then the value of x is

1) 54 2) 6 3) 21 4) 7

25. In what time will ` 6880 amount to ` 7224, if simple interest is calculated at 10% per annum ?

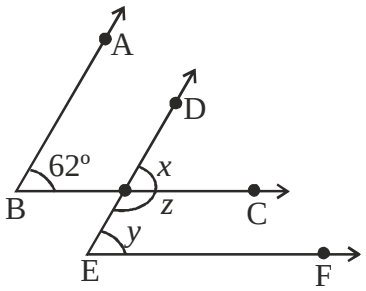
1) 6 months 2) 9 months 3) 2 months 4) 5 months

One or more Correct Answer Type: 5 × 3 = 15

26. Identify which number pairs are relatively prime ?

1) 21, 32 2) 30, 36 3) 49, 72 4) 61, 62

27. In the given fig. *AB*||*ED* and *BC*||*EF* . If ∠ABC = 62°, then find *x, y and z.*



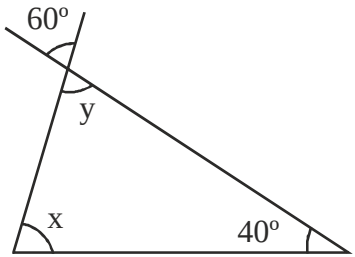
1) x = 62° 2) y = 62° 3) z = 118° 4) x = 67°

28. Find interest (I) and amount (A) when Principle = ` 1000, Rate = 5% p.a., Time = 3 years.

1) I = ` 150 2) A = ` 1050

3) A = ` 1150 4) I = ` 115

29. From the following figure, what are the respective value of x and y ?



1) $x = 60^o$ 2) $y = 60^o$ 3) $x = 80^o$ 4) $y = 80^o$

30. Some observations of data are 94, 34, 94, 34, 94, 61, 59, 43, 34, 68 then its

1) Mean is 61 2) Median is 60

3) Range is 60 4) Average is 61.5

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

ROUGH WORK