



Max. Marks: 60

PAPER CODE

FORM NUMBER

IMO (STAGE-2) MOCK TEST

(ACADEMIC SESSION 2025-2026)

Pre Foundation Division

CLASS VI

MOCK TEST #01

	PLEASE READ THE FOLLOWING INSTRUCTIONS CAREFULLY
1.	Answers are to be given on a separate OMR sheet.
2.	This test contains Mathematical Reasoning (45 Questions) and Achievers
	Section (5 Questions). Total questions are 50. Duration of test is 1 Hr.
3.	Each question in Achievers Section carries 3 marks whereas all other
	questions carry 1 mark. There is no negative marking for wrong answers.
	Total marks are 60.
4.	Mark your answers for questions 1-50 on the OMR sheet by darkening
	the circles.
5.	If you do not know the answer to any question, do not waste time on it
	and pass on to the next one. Time permitting, you can come back to the
	questions, which you have left in the first instance and attempt them.
6.	Since the time allotted for this question paper is very limited you should
	make the best use of it by not spending too much time on any one
	question.
7.	Rough work can be done anywhere in the booklet but not on the OMR
	sheet/loose paper.

Prepare to be a Winner With Class24

Science Olympiads

NSO, IOS, NSTSC, VVM, ICQ Mathematics Olympiads UIMO. IMO. IOM. IPM. NMTC

8.

MATHEMATICS

 Raman is 60 years old and Raj is 29 years older than Raman. Write the sum of their ages in Roman system.
 (1) CXLIX (2) XXDI

(1) CALIX	(2) MADI		
(3) LXIX	(4) CLXI		

- 2. If 60% of (x y) = 50% of (x + y), then what percent of x is y ?
 - (1) $9\frac{1}{11}\%$ (2) 30%
 - (3) 40% (4)50%
- **3.** If you multiply me by 37 and add 11 to the product, you will get 529. Who am I?

(1) 15	(2) 16
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- (3) 17 (4) 14
- 4. Find the least number, which when divided by 20, 25, 35 and 40, leaves remainders 14, 19, 29 and 34, respectively.
 (1) 1394
 (2) 1408
 - (1) 1394
 (2) 1408

 (3) 1423
 (4) 1414
- 5. A multiple of a given number is divisible by the and the minimum number of factors of any number is
 - (1) Given number, 2
 - (2) Given number, 1
 - (3) Multiples of given number, 2
 - (4) Multiples of given number, 1
- 6. Read the following graph and answer the question below.



The difference between the sum of sales in (February & April) and the sum of sales in (September & October) is

(1) 14000 (2) 10000

(3) 35000	(4) 55000
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- 7. Which of the following statements is true?
 - (i) A number is divisible by 3, if the product of its digits is divisible by 3.
 - (ii) If a number exactly divides the sum of two numbers, it must exactly divide the two numbers separately
 - (iii) A number is divisible by 6, if it is divisible by both 2 and 3.
 - (iv) A number is divisible by 11 if difference between the sum of odd place digits and product of even place digits is either zero or divisible by 11.
 - (1) i (2) ii & iii both
 - (3) iii only (4) ii only
 - The number 97016976 is not divisible by
 - (1) 32 (2) 24 (3) 16 (4) 8
- **9.** The number x is a common factor of 16 and 24. It is also a common multiple of 2 and 8. The number y is a common factor of 18 and 27. It is also a common multiple of 3 and 9. Find the difference between x & y

$$(1) 1 (2) 2 (3) 4 (4) 8$$

- **10.** Select the CORRECT match.
 - (1) 1 lakh = 100 ten thousand
 - (2) 1 million = 100 lakh
 - (3) 1 crore = 10 ten lakh
 - (4) 1 million = 1 hundred thousand
- **11.** If the opposite angles of a quadrilateral are equal and diagonals are not equal, then the quadrilateral is
 - (1) Parallelogram
 - (2) Trapezium
 - (3) Square
 - (4) Rectangle
- **12.** How many blocks must be added in figure (ii) to make figure (i) ?



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13. The given picture is shaded to represent a fractional number.

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How many of the stars in the group below must be shaded to represent a fraction with the same value of above unshaded fractional number?



- **14.** Find the smallest 6-digit number which is completely divisble by 75.
 - (1) 100050 (2) 105007
 - (3) 100750 (4) 107050
- **15.** What fraction of the figure is shaded?



- 16. Ali had 88 stamps more than Samir. After Samir
 - bought another 23 stamps, Samir had $\left(\frac{7}{8}\right)$ as

many stamps as Ali had. How many stamps did Ali have?

(1) 165 (2) 432 (3) 581 (4) 520

17. Simplify:

$$\begin{pmatrix} \left(2\frac{1}{2}+3\frac{5}{7}\times\frac{3}{13}-\frac{1}{2}\div4\right)\div100\right)_{+}\\ \left(\left(24-16\right)\div\frac{1}{8}-64\times\frac{1}{(10-2)}+4\right)\\ (1)\ 6.0032 \qquad (2)\ 60.0302\\ (3)\ 60.032 \qquad (4)\ 60.320\\ \end{pmatrix}$$
18. How many $\frac{1}{14}$ s are there in $\frac{5}{2}$?
(1) 7 (2) 35 (3) 38 (4) 12

19. Garima has 142 marbles. She gave 48 to her sister and 50 to her brother. What fraction of the marbles is left with her?

(1)
$$\frac{22}{71}$$
 (2) $\frac{23}{71}$
(3) $\frac{24}{71}$ (4) $\frac{26}{71}$

20. The largest 6-digit number having three different digits is

- 21. Simplify: $16 \left[5 \left(6 + 2 \left(7 \overline{8 5} \right) \right) \right]^{7}$ (1) 23 (2) 25 (3) 28 (4) 30
- **22.** The given bar graph shows the number of students in 4 sections of class 6.



Ratio of total number of boys to total number of students in the 4 sections is

$$)2:5$$
 (2) $3:4$ (3) $1:2$ (4) $1:3$

23. What least number should be added to 2410 to get a number exactly divisible by 45 ?

(1)

(1) 30 (2) 10 (3) 20 (4) 15

24. The given figure is made up of small squares. The area of a small square is 9 cm². Find the perimeter of the figure.





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25. Place numbers in the vacant triangles in the given figure such that the sum of two triangles equals the value in the circle.





(3) 3.11,5.42,6.65 (4) 3.11,5.65,8.65

26. If the given figure is made up of identical squares of side 4 cm , then find the perimeter and shaded area of the figure respectively



- (1) $300 \text{ cm}, 96 \text{ cm}^2$ (2) $240 \text{ cm}, 384 \text{ cm}^2$
- (3) $300 \text{ cm}, 52 \text{ cm}^2$ (4) $240 \text{ cm}, 52 \text{ cm}^2$
- 27. Sohan runs around a square park of side 70m. Meenu runs around a rectangular park of length 90m and breadth 40m. Who covers more distance and by how much?
 - (1) Meenu, 20m (2) Sohan, 40m
 - (3) Sohan, 20m (4) Meenu, 30m
- **28.** Ayush had a square cardboard. The cardboard was cut into 16 equal triangles. Find the area of each triangle.



29. In a mixture of 60 litres, the ratio of milk and water is 2:1. What will be the quantity of water added in mixture, so that new ratio of milk and water becomes 1 : 2 ?

(1) 20 litres
(2) 30 litres

(4) 60 litres

30. If the weight of Q is equal to R and weight of P is thrice the weight of Q, then find the total weight of P + Q (all triangles are identical).

$$Q P R \bigtriangleup$$

Weight of a $\triangle = 10 \text{ kg}$

- (3) 32 kg (4) 45 kg
- **31.** A machine prints 132 magazines in 8 minutes. At this rate, how many magazines will it print in 2120 seconds?

(1) 720	(2) 748
(3) 632	(4) 583

32. Find the value of $\frac{6y+11+4y-5}{2y}$ if 2y-5=9.

(1) 5.4	(2) 8.5
(3) 6.4	(4) 3.8

- **33.** The length, breadth and height of a room are 9 m 10cm, 7m 80 cm and 3m 90 cm respectively. Find the greatest length of a tap which can be used to measure the dimension of the room in exact number of times.
 - (1) 1 m 16 cm (2) 1 m 30 cm
 - (3) 1 m 90 cm (4) 1 m 60 cm
- **34.** The value of 73.7 38.89 + 86.4 45.66 is:

(1) 73.50	(2) 73.52
(3) 75.55	(4) 73.58

35. The ratio of Maya's savings in account P to her savings in account Q was 5:8. If she spent $\frac{2}{5}$ of her savings from account P and is left with 2457 in her account P, then what was the total amount in account P and Q?

(1) 14607	(2) 10647
(3) 19118	(4) 24507

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(3) 40 litres

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36. A rectangular piece of paper is folded as shown here. Find the perimeter and area of the paper before it is folded.



- (3) 52 cm, 88 cm²
- (4) 52 cm, 48 cm²
- 37. The ratio of Gaurav's age to Mohit's age is 5:6. If Gaurav is 9 years younger than Mohit, then 2 years later, sum of their ages in years

(1) 45	(2)54
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(3)103	(4)99
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38. Find the minimum number of shaded squares to be added so that the figure has vertical line of symmetry.

	_	 	_	_

(1) 1	(2) 2	(3) 3	(4) 4

- **39.** If 52:95::51:x, then the value of $\frac{3x-8}{3x+8}$ is
 - (1) 0.946
 - (2) 0.945
 - (3) 0.948
 - (4) 0.944

40. A bookstore sold books worth Rs. 3,05,945 in the month of August and books worth Rs. 5,39,625 in the next month. Find the total sale of the bookstore for the two months together.

- (1) Rs. 835570
- (2) Rs. 845670
- (3) Rs. 855670
- (4) Rs. 845570

41. The descending order of CLXX, XXXVI, MV is

- (1) MV, XXXVI, CLXX
- (2) MV, CLXX, XXXVI
- (3) CLXX, XXXVI, MV
- (4) XXXVI, CLXX, MV
- **42.** Which of the following statements is true?
 - (1) Zero is the smallest whole number.
 - (2) All whole numbers are natural numbers.
 - (3) 1 is the smallest whole number.
 - (4) The predecessor of a two digit number is never a single digit number.

$$-(-3) + (-4) - (-13) - (14)$$

43. Find the value of

8 + (-9) + 5 - (-4)

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

- **44.** The sum of ages of four persons is 114 and their ages are in the ratio 3:4:5:7. The sum of the age of eldest and youngest person is
 - (1) 18 years (2) 60 years

(3) 24 years (4) 30 years

45. Fill in the box with >, < or =.

$$7 + 8 - 25 \sum 50 + (-40) - (-2)$$
(1) > (2) <

$$|1\rangle > (2) <$$

(4) can't be determined

(3) =



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TEST - 1

ACHIVERS SECTION

46. The given bar graph shows the number of mobile phones sold at the 4 stores in May, June and July. Find the ratio of the total number of mobile phones sold at the 4 stores in May & June to June & July





47. Select the correct option.

Statement-1: A number for which sum of all its factors is equal to twice the number, is called a perfect number.

Statement-2: 16 and 48 are perfect numbers.

- (1) Statement-1 is true but Statement-2 is false.
- (2) Statement-1 is false but Statement-2 is true.
- (3) Both the statements are true.
- (4) Both the statements are false.
- 48. The given figure (not drawn to scale) is made up of two overlapping squares, ABCD and PQRS. PMCN is also a square. Find the perimeter of the figure in terms of x.



- **49.** Fill in the blanks
 - (P) Point's are..... if they lie on the same line.
 - (Q)..... is a chord of circle, passing through the centre.

	Р	Q	R
(1)	Non-Collinear	Diameter	Perpendic ular lines
(2)	Collinear	Diameter	Parallel lines
(3)	Collinear	Radius	Parallel lines
(4)	Non-Collinear	Diameter	Parallel lines

(R) are lines which do not meet.

50. The length of pencil Q is exactly half way between the lengths of pencil P and pencil R. What is the total length of pencil P, Q and R?



(3)
$$11\frac{4}{7}$$
 (4) $34\frac{13}{14}$

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	- Prepare to be a Winner With Class24																			

C	LASS	24			CLASS - VI											TEST - 1		
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