

GREENLAWNS SCHOOL, WORLI

FINAL EXAMINATION: 2025-26

MATHEMATICS

Std: VI

Marks: 80

Date: 20/02/2026

Time: 2 hrs

Answers to this paper must be written on the paper provided separately. You will **not** be allowed to write during the first **10** minutes. This time is to be spent in reading the Question paper.

Question 1

Choose the correct answers to the questions from the given options.

[10]

(Do not copy the question, write the correct answers only.)

- 1) Which of the following is NOT a pair of co-primes?
(a) 3,4 (c) 7, 11
(b) 16,9 (d) 5, 30

- 2) The ratio of 20 minutes to 1 hour is:
(a) 20:60 (c) 1:3
(b) 21:1 (d) $\frac{1}{3} : 1$

- 3) If $6 : 8 :: x : 20$, then x equals:
(a) 25 (c) 3
(b) 15 (d) 5

- 4) If $5x + 6 = 31$, then x is equal to:
(a) $\frac{37}{5}$ (c) 6
(b) 5 (d) - 5

- 5) A speed of $3\frac{1}{3}$ m/s converted into km/h is:
(a) 12 km/h (c) 8 km/h
(b) 9 km/h (d) 10 km/h

- 6) The side length of a square of area 256 cm^2 is:
(a) 13 cm (c) 15 cm
(b) 14 cm (d) 16 cm

- 7) Two opposite angles of a parallelogram are 80° each. Then each of the other two opposite angles will be:
(a) 180° (c) 100°
(b) 360° (d) 80°

- 8) Ram is designing a garden in the shape of a quadrilateral. Its opposite sides are parallel, adjacent sides are equal and at least one of the angles is an obtuse angle. Identify the plane shape representing the garden:
- (a) Rectangle (c) Parallelogram
(b) Rhombus (d) Square
- 9) The perimeter of a regular hexagon with side 8 cm is:
(a) 16 cm (c) 48 cm
(b) 40 cm (d) 56 cm
- 10) The number of patients visiting a hospital on the first ten days of a month is given below:
62, 36, 98, 74, 75, 45, 60, 90, 85, 35.
The median of the above data is:
(a) 66 (c) 62
(b) 68 (d) 74

Question 2

[10]

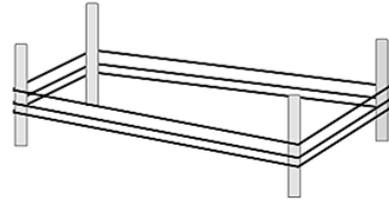
- 1) Find the HCF of 1044 and 1512 by division method.
- 2) Divide ₹5600 between Neeraj and Arun in the ratio 3 : 5.
- 3) Evaluate: $81 \div [3 \text{ of } \overline{2 + 7}] \times 5 \text{ of } 6$
- 4) One-sixth of a number when added to two-thirds of the same number gives 295. Find the number.
- 5) If the mean of 10, 12, x, 18, 9, 8 is 15, find the value of 'x'.

Question 3

- 1) A train is moving at a speed of 90 km/h. If the length of the train is 100 m, how long will it take to cross a railway platform 125 m long? [3]
- 2) The age of father is 30 years more than the age of his son. If the sum of their ages is 60 years, find the age of father and his son. [3]
- 3) Solve: [4]
 - (a) $3m + 25.8 = -4.2$
 - (b) $5(2c + 1) + 1 = 26$

Question 4

- 1) A farmer has a rectangular field of length and breadth 240 m and 180 m respectively. He wants to fence it with 3 rounds of rope as shown in the figure. What is the total length of rope he must use? [3]



- 2) Find the least number which when divided by 25, 40 and 60 leaves a remainder of 7. [3]
- 3) The following is the data obtained about the size of shoes of students of class VI. [4]

6	4	5	4	6	4	5	7	4	5
4	5	5	6	4	5	4	4	5	4
4	4	7	4	5	7	5	6	4	5

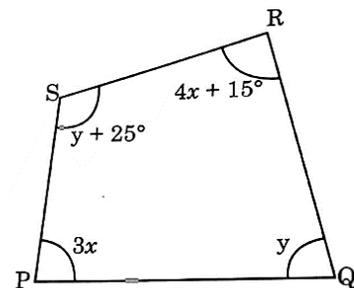
Using the above data, construct a frequency distribution table and then answer:

- (a) Name the size of shoes worn by maximum number of students.
(b) How many students have shoe size 7?

Question 5

- 1) The cost of flooring a rectangular hall at ₹ 60 per square metre is ₹ 18000. If the length of the hall is 20 m, find: [3]
- (a) It's width
(b) It's perimeter
- 2) In quadrilateral PQRS, $\angle P + \angle R = 155^\circ$. Find: [3]

- (a) the value of x
(b) the value of y

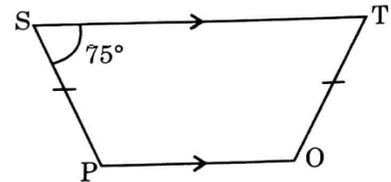


- 3) Simplify the following: [4]
- (a) $34 - [29 - \{30 + 66 \div (24 - 28 - 26)\}]$
(b) $45 - [30 - \{18 + (2 \times 9 \div 3)\}]$

Question 6

- 1) The cost of 20 pens is ₹ 300. [3]
(a) Find the cost of 15 pens.
(b) How many pens can be bought for ₹ 750?

- 2) In the given figure, STOP is an isosceles trapezium. [3]
If $\angle PST = 75^\circ$, find the measure of other angles of trapezium STOP.



- 3) Jaya, Sony, Gita and Riya have saved some money to buy notebooks and donate it. Read the instructions given below and answer the questions that follow: [4]

	Jaya	Sony	Gita	Riya	Total Saving
Saving Amount	_____	₹ 2000	_____	₹ 5000	₹ 13,500

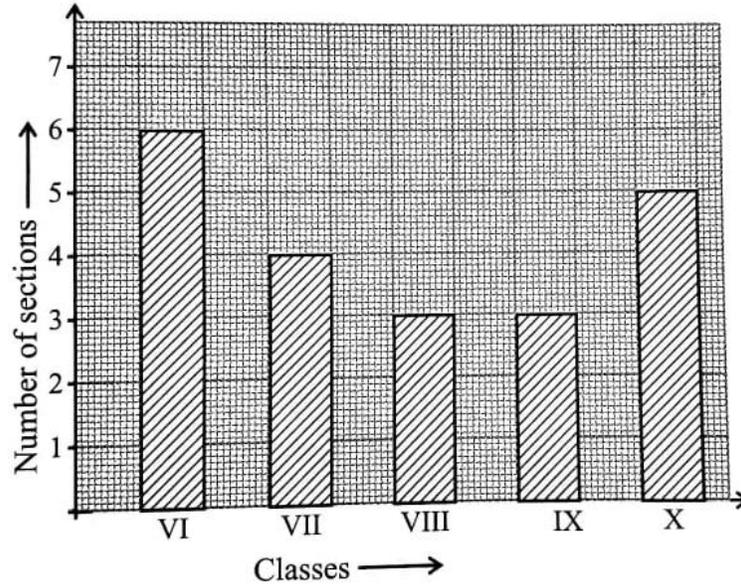
- (a) The ratio of the amount saved by Jaya to that of Sony is 3 : 2. How much money did Jaya save?
(b) What is the ratio of Sony's savings to that of Riya?
(c) How much money did Gita save?
(d) What is the ratio of Riya's savings to that of the total savings?

Question 7

- 1) The perimeter of a square plot is 480 m. Find: [3]
(a) It's area
(b) Cost of fencing it's boundary at the rate of ₹ 35 per metre.
(c) Cost of levelling the plot at ₹ 50 per square metre.
- 2) The sum of three consecutive numbers is 96. Taking the middle number as x, find the three numbers. [3]
- 3) Find: [4]
(a) HCF of 120, 180 and 300 using the prime factor method.
(b) LCM of 36, 48, 72 and 144 using the common division method.

Question 8

- 1) The ratio of the income of a person to his expenditure is 8 : 7. If his expenditure in one year is ₹ 1,26,000, then what is his monthly income? [3]
- 2) The bar graph gives the number of sections of classes VI to X in a school. [3]
Read the graph and answer the following questions:



- (a) How many sections in total are there in the school from VI to X?
 - (b) How many sections are there in classes VII and VIII taken together?
 - (c) How many sections are there in class X?
- 3) The population (rounded off to nearest lakhs) of five major cities is given below: [4]

City	Delhi	Mumbai	Kolkata	Chennai	Bangalore
Population (in lakhs)	60	80	90	45	30

Draw a bar graph to represent the above data.
