St. Thomas' School, Sunari, Agra

Sample Maths paper (2024-2025)

Class: VI

Subject: Mathematics

M. Time: 2 h. 30 min.

	MM: 80
Name:	<u> </u>
Roll no.:	General Instructions:
i. All questions are compulsory from Section	n A, Section B, Section C, and Section D.
ii. Solve each question with proper steps.	
iii. Show calculations related to each questi	on in rough work.
iv. Omission of essential working will result	in loss of marks.
Section	on A
(10 ma	arks)
Q1. Choose the correct answers from the g write the correct answers only.)	iven options. (Do not copy the question,
	$[10 \times 1 = 10]$
I. The ratio of 25 to 50 is:	
a) 1:2	
b) 2:1	
c) 1:3	
d) 5:2	
II. If a car travels 120 km in 2 hours, what is	s its speed?
a) 60 km/h	
b) 120 km/h	
c) 240 km/h	
d) 30 km/h	

III. A quadrilateral has how many sides?

a) 2
b) 3
c) 4
d) 5
IV. Which of the following is a three-dimensional shape?
a) Square
b) Rectangle
c) Circle
d) Cube
V. If a train covers 150 km in 3 hours, how much distance will it cover in 5 hours at the same speed?
a) 200 km
b) 250 km
c) 300 km
d) 350 km
VI. The number of diagonals in a pentagon is:
a) 2
b) 5
c) 7
d) 10
VII. The sum of all angles in a quadrilateral is:
a) 180°
b) 360°
c) 540°
d) 720°
VIII. If a triangle has angles measuring 60°, 60°, and 60°, it is:
a) Isosceles
b) Equilateral
c) Scalene

d) Right-angled	
IX. A circle with a radius of 7 cm has a diameter of:	
a) 7 cm	
b) 14 cm	
c) 21 cm	
d) 28 cm	
X. The value of x in the equation $2x + 3 = 11$ is:	
a) 2	
b) 3	
c) 4	
d) 5	
Section B	
(20 marks)	
Q2. Find the ratio of 45 to 180.	
	[2]
Q3. Convert 1200 metres into kilometres.	
	[2]
Q4. If the cost of 7 notebooks is £35, what is the cost of 1 notebook?	
	[2]
Q5. Find the perimeter of a rectangle with length 12 cm and breadth 8 cm.	
	[2]
Q6. A car travels 240 km in 4 hours. What is the speed of the car?	LO.
07 Cimplify 2(x + 5) = 24	[2]
Q7. Simplify: $3(x + 5) = 24$.	LO.
Q8. Find the area of a square with a side of 5 cm.	[2]
Qo. Find the area of a square with a side of 5 cm.	ιo.
On A have contains 2 rad halls. 5 blue halls, and 7 group halls. What is the ratio of	[2]
Q9. A box contains 3 red balls, 5 blue balls, and 7 green balls. What is the ratio of red balls to the total number of balls?	

	[2]
Q10. How long will it take for a train moving at 80 km/h to travel a distance of 320 km?	
	[2]
Q11. Represent the equation $2x + 5 = 15$ on a number line.	
	[2]
Section C	
(30 marks)	
Q12. Draw and label a quadrilateral ABCD, where AB = 5 cm, BC = 6 cm, CD = 4 cm, and DA = 7 cm.	
	[3]
Q13. A car covers a distance of 180 km at a speed of 60 km/h. Calculate the time taken by the car to cover the distance.	
	[3]
Q14. If a person walks 5 km in 1 hour, how long will it take to walk 15 km at the sa speed?	me
	[3]
Q15. Solve the linear equation: 5x - 7 = 18.	
	[3]
Q16. Draw a circle with a radius of 4 cm and mark its centre as O.	
	[3]
Q17. A train covers 600 km in 8 hours. What is the speed of the train in km/h?	[0]
Q17.7 thain severe see this in a hears. What is the speed of the train in this.	[2]
Q18. If the ratio of boys to girls in a class is 3:2 and there are 30 boys, how many girls are there?	[3]
ge a.e a.e.e.	[3]
Q19. Find the area of a rectangle with length 10 cm and breadth 6 cm.	[J]
Q 19. 1 ind the area of a rectangle with length 10 cm and breath 0 cm.	[2]
000 PLAN (0.0) 1/4 F)	[3]
Q20. Plot the points (2, 3) and (4, 5) on a graph paper.	
	[3]
Q21. Identify the type of polygon with 6 sides.	

Section D

(20 marks)

Q22. A cyclist covers a distance of 90 km in 3 hours. If he increases his speed by 10 km/h, how long will it take to cover the same distance?

[4]

Q23. Solve for x: 7(x - 4) = 3x + 20.

[4]

Q24. Find the circumference of a circle with a diameter of 14 cm.

[4]

Q25. A shopkeeper sold 15 kg of rice for £450. What is the price per kg? How much will 25 kg of rice cost?

[4]

Q26. Draw a triangle with sides 6 cm, 8 cm, and 10 cm. Measure and label the angles of the triangle.

[4]