



ST. MARGARET SR. SEC. SCHOOL
SAMPLE PAPER FINAL TERM EXAMINATION 2024-25
MATHEMATICS
CLASS VI

Time: 2.5 Hrs

M.M: 60

SECTION-A
(Q1 to Q15 – MCQ Questions of 1 mark each)

Write the correct option along with the answer.

- Q1. How many right angles are there in a complete turn?
(a) 2 (b) 4 (c) 6 (d) 8
- Q2. A number is divisible by 3 if:
(a) The last digit is 3 (b) The last digit is 0
(c) The sum of digits is divisible by 3 (d) The number is even
- Q3. The perimeter of a square with a side length of 15 cm is:
(a) 30 cm (b) 45 cm (c) 60 cm (d) 75 cm
- Q4. The smallest odd prime number is:
(a) 0 (b) 1 (c) 2 (d) 3
- Q5. Identify which of the following shapes is NOT a polygon.
(a) Triangle (b) Circle (c) Quadrilateral (d) Pentagon
- Q6. What is the value of $(-9) + 4$?
(a) -13 (b) -5 (c) 5 (d) 13
- Q7. A triangle has angles measuring 90° , 45° , and 45° . What type of triangle is this?
(a) Scalene (b) Obtuse angled (c) Equilateral (d) Right-angled
- Q8. Which figure has only one pair of parallel sides?
(a) Square (b) Rectangle (c) Parallelogram (d) Trapezium
- Q9. Which of the following is equivalent to 3:5?
(a) 6:10 (b) 9:12 (c) 5:3 (d) 10:15
- Q10. The decimal form $\frac{7}{10}$ of is:
(a) 0.7 (b) 7.1 (c) 0.07 (d) 70
- Q11. How many lines can be drawn through one point?
(a) 1 (b) 2 (c) 3 (d) Infinite
- Q12. How many factors does 10 have?
(a) 2 (b) 3 (c) 4 (d) 5

Q13. What is the value of $(-9) + 4$?

- (a) -13 (b) -5 (c) 5 (d) 13

Q14. The LCM of 6 and 8 is:

- (a) 12 (b) 24 (c) 48 (d) 18

Q15. What is the area of a rectangle with a length of 12 cm and a breadth of 8 cm?

- (a) 96 cm^2 (b) 100 cm^2 (c) 80 cm^2 (d) 64 cm^2

SECTION-B
(Q16 to Q22 carry 2 marks each)

Q16. Where will the hour hand of a clock stop if it starts: (Draw the figures also)

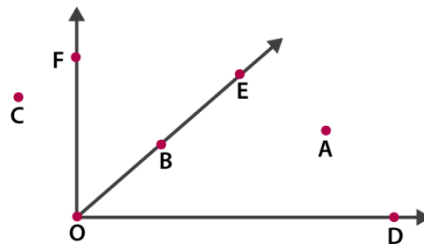
- (a) from 7 and turns through 3 right angles?
(b) from 12 and turns through 2 right angles?

Q17. Find the prime factorisation of 1729 and write the sum of all the prime factors of 1729.

Q18. If a train travels 50 km in 1 hour, how much distance will it cover in 4 hours?

Q19. In the given diagram, name the points(s)

- (a) In the interior of $\angle DOE$
(b) In the exterior of $\angle EOF$
(c) On $\angle EOF$



Q20. A vegetable seller has 8 kg 250 g of potatoes. How much is left with him if he sells 3 kg 50g? **(Use decimals)**

Q21. Oranges are to be transferred from larger boxes into smaller boxes. When a large box is emptied, the oranges from it fill two smaller boxes and still 10 oranges remain outside. If the number of oranges in a small box is taken to be x , what is the number of oranges in the larger box?

Q22. Find the HCF of 24, 36, and 60 by long division method.

SECTION-C
(Q23 to Q27 carry 3 marks each)

Q23. If 3 notebooks cost ₹96, find the cost of 7 such notebooks.

Q24. Classify the following triangles based on sides:

- (a) Triangle with sides 7 cm, 7 cm, and 7 cm
(b) $\triangle LMN$ with $m\angle L = 30^\circ$, $m\angle M = 70^\circ$ and $m\angle N = 80^\circ$.
(c) Triangle with sides 6 cm, 6 cm, and 9 cm

Q25. Ten years old Rahul can carry a maximum weight of 15 kg. If he bought 4 kg 900 g of

apples, 2 kg 600 g of grapes and 5 kg 300 g of mangoes. Can he carry the total weight that he bought? If yes, then how much more weight he can carry with him? **(Use decimals)**

Q26. Determine if the following ratios form a proportion. Also, write the middle terms and extreme terms if the ratios are in proportion.

25g: 30kg and 40m: 48cm

Q27. Three boys step off together from the same spot. Their steps measure 63cm, 70cm and 77cm respectively. What is the minimum distance each should cover so that all can cover the distance in complete steps?

SECTION-D
(Q28 to Q31 carry 4 marks each)

Q28. Subtract the sum of (-2330) and (-988) from the sum (-2100) and (-2001)

Q29. A father is 48 years old, and his son is 16. Find the ratio of:

(a) Father's age to son's age

(b) Father's age after 10 years to son's age after 10 years

(c) Father's age when he was 30 years old to son's age at that time

Q30. The floor is 9m long and 5m wide. A square carpet of sides 7m is laid on the floor. What is the area of the floor that is not carpeted?

Q31. Find the sum:

$$3\frac{1}{5} + 4\frac{2}{3} + 5\frac{3}{10}$$