



SAMPLE PAPER

FINAL EXAMS SESSION 2025 – 26

CLASS – VIII

TIME : 3 HRS.

SUBJECT – MATHEMATICS

M.M:80

General Instructions

- (a) Question paper is divided into 4 sections A,B,C and D.
- (b) Section – A comprises 10 questions of 1 mark each.
- (c) Section – B comprises 10 questions of 2 marks each.
- (d) Section – C comprises 6 questions of 4 marks each. Attempt any 5.
- (e) Section – D comprises 8 questions of 5 marks each. Attempt any 6.

SECTION – A

A. Choose the correct option:

(i) 1/3

(ii) 1/4

(iii) 1/2

(iv) 0

SECTION – B

11. Solve: $5x + 9 = 5 + 3x$
12. Solve: $2x + 7 = 8x - 4 + 19$
13. A bag has 4 red balls and 2 yellow balls. A ball is drawn from the bag without looking into the bag. What is the probability of getting a red ball?
14. Convert 2 : 3 to percentage.
15. 72% of 25 students are good in maths. How many are not good in maths?
16. Find the area of a rhombus whose side is 6 cm and altitude is 4 cm. If one diagonal is 8 cm long, find the length of the other diagonal.
17. Evaluate: $(3^{-1} + 4^{-1} + 5^{-1})^0$
18. Define inverse proportion.
19. Define pie chart.
20. Factorise: $6xy - 4y + 6 - 9x$

SECTION - C (DO ANY 5)

21. Factorise: $x^2 + 7y + 12$
22. A contractor estimates that 3 persons could revise Jasmin's house in 4 days. If he uses 4 persons instead of 3, how long will they take to complete the job?
23. A godown is in the form of a cuboid of measures $60 \text{ m} \times 40 \text{ m} \times 30 \text{ m}$. How many cuboidal boxes can be stored in it if the volume of one box is 0.8 m^3 ?
24. The price of a TV is Rs13,000. The sales tax charged on it is at the rate of 12%. Find the amount that Vinod will have to pay if he buys it.
25. Sohan bought a second-hand refrigerator for Rs2500, then spent Rs500 on its repairs and sold it for Rs3300. Find the loss or gain percent.
26. Simplify and solve the following linear equation: $3(t - 3) = 5(2t + 1)$

SECTION - D (DO ANY 6)

27. Solve: $x/2 - 1/5 = x/3 + 1/4$
28. An article was purchased for ₹1239 including GST of 18% Find the price of the article before GST was added.
29. In a building there are 24 cylindrical pillars. The radius of each pillar is 28 cm and height is 4 m. Find the total cost of painting the curved surface area of all pillars at the rate of Rs8 per m^2 .
30. Rashmi has a road map with a scale of 1 cm representing 18 Km, she drives on a road for 72

Km . What would be her distance covered in the map?

31. Factorise : $(5p^2 - 25p + 20) \div (p - 1)$
32. Factorise $q^2 - 10q + 21$
33. A group of 360 people were asked to vote for their favourite season from the three seasons rainy, winter and summer

| Season | No of Votes |
|--------|-------------|
| Summer | 90 |
| Rainy | 120 |
| Winter | 150 |

- (a) Which season got the most votes?
- (b) Find the central angle of each sector.
- (c) Draw a pie chart to show this information.

34. Evaluate $(5/8)^{-1} \times (8/5)^{-4}$