



SAMPLE PAPER

FINAL EXAMS SESSION 2025 – 26

CLASS – VIII

TIME : 3 HRS.

SUBJECT – MATHENATICS

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:

1. The solution of the equation $x + 7 = 11$ is:
(i) 4 (ii) 5 (iii) 7 (iv) 11
2. Solve: $10 - x = 3$. The value of x is:
(i) 5 (ii) 6 (iii) 7 (iv) 8
3. If the cost price of an article is Rs1000 and it is sold at a loss of 10%, what is the selling price?
(i) Rs 850 (ii) Rs 900 (iii) Rs 950 (iv) Rs1100
4. The area of a square whose side is 14 cm is ____ cm^2 .
(i) 98 (ii) 196 (iii) 28 (iv) 49
5. The area of a trapezium with parallel sides 10 cm and 6 cm and height 5 cm is:
(i) 30 (ii) 40 (iii) 45 (iv) 50
6. Which of the following is equal to 3^2 ?
(i) 3 (ii) 2 (iii) 9 (iv) 6
7. If 5 pens cost Rs25, then the cost of 8 pens is:
(i) Rs30 (ii) Rs35 (iii) Rs40 (iv) Rs45
8. If the number of students increases, the number of benches required also increases. This is an example of:
(i) Inverse proportion (ii) Direct proportion
(iii) No proportion (iv) Constant proportion
9. The common factor of $8a$ and $12a^2$ is:
(i) $4a$ (ii) $2a$ (iii) $8a$ (iv) $12a^2$
10. The probability of getting a tail when a coin is tossed:

(i) $\frac{1}{3}$

(ii) $\frac{1}{4}$

(iii) $\frac{1}{2}$

(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 m \times 40 m \times 30 m. How many cuboidal boxes can be stored in it if the volume of one box is 0.8 m³?
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: $\frac{x}{2} - \frac{1}{5} = \frac{x}{3} + \frac{1}{4}$
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 m².
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 $(5/8)^{-1} \times (8/5)^{-4}$