



Attempt questions first; check the separate key afterward. Show all working. Draw accurate figures where required.

A. Very short answers - 1 mark each

1. Convert 0.75 into a simplest fraction.
2. Convert $7/8$ to a decimal.
3. Write 35% as a fraction.
4. Write $3/5$ as a percentage.
5. Add $5/6$ and $7/12$.
6. Subtract $3/8$ from $5/6$.
7. Multiply $7/9$ by $3/14$.
8. Divide $5/8$ by $15/16$.

B. Short answers / practice - 2 marks each

9. Which is larger: $7/12$ or $5/8$?
10. Arrange 0.6, $5/8$, 58% in increasing order.
11. Find $3/7$ of 245.
12. $2/5$ of a number is 48. Find it.
13. Express 2.4 as a mixed number.
14. Express 1.125 as a fraction.
15. Find the reciprocal of $-7/9$.
16. Does zero have a reciprocal?
17. A bottle is $3/4$ full. Half its contents are poured out. What fraction remains?
18. If capacity is 2 L, find remaining volume.
19. A price increases by 20% then decreases by 20%. Find net percentage change.
20. Show this using an initial price ₹1000.

C. Application / reasoning - 3 marks each

21. Find a fraction halfway between $1/3$ and $1/2$.
22. Write two fractions between $1/4$ and $1/2$.

23. Convert 0.125 km into metres.
24. Convert $3/4$ hour into minutes.
25. A class has 18 girls among 30 pupils. Find the fraction and percentage of girls.
26. If 6 boys join, find the new percentage of girls.
27. Evaluate $2/3 + 3/4 - 5/6$.
28. A number's $7/12$ is 42. Find the number.
29. A price falls from ₹500 to ₹425. Find percentage decrease.
30. Arrange $2/3$, 0.65 and 67% in increasing order.
31. A student spends $1/3$ of an allowance, then $1/4$ of the remainder. What fraction is left?

D. Extended practice - 5 marks per pair

32. A 24 m ribbon is cut into pieces of length $3/4$ m. Find the number of pieces.
33. If $1/6$ of the ribbon is used first, how many such pieces remain possible?
34. Explain why multiplying a positive number by a fraction below 1 reduces it.
35. A tank is $2/3$ full; adding 15 L makes it $5/6$ full. Find capacity.

ANSWER KEY - Numerical / closed questions

- 1) $3/4$. 2) 0.875. 3) $7/20$. 4) 60%. 5) $17/12$. 6) $11/24$. 7) $1/6$. 8) $2/3$. 9) $5/8$. 10) 58%, 0.6, $5/8$. 11) 105. 12) 120. 13) $2\frac{2}{5}$. 14) $9/8$. 15) $-9/7$. 16) No. 17) $3/8$. 18) 0.75 L. 19) 4% decrease. 20) Final ₹960. 21) $5/12$. 22) Examples: $1/3$, $3/8$. 23) 125 m. 24) 45 minutes. 25) $3/5$; 60%. 26) 50%. 27) $7/12$. 28) 72. 29) 15%. 30) 0.65, $2/3$, 67%. 31) $1/2$. 32) 32. 33) 26 full pieces; 0.5 m left. 35) 90 L.