PERCENTAGE

1. What percentage is equivalent to $\frac{3}{4}$?

   (1) 25% (2) 75% (3) 50%
   (4) 125% (5) None of these

2. What fraction is 15 per cent?

   (1) $\frac{9}{20}$ (2) $\frac{7}{20}$ (3) $\frac{3}{20}$
   (4) $\frac{3}{10}$ (5) None of these

3. Find 4% of ₹ 3125.

   (1) ₹ 250 (2) ₹ 125 (3) ₹ 150
   (4) ₹ 75 (5) None of these

4. 66% of what number is 30?

   (1) 50 (2) 25 (3) 60
   (4) 75 (5) None of these

5. ₹ $12\frac{1}{2}$ is what per cent of ₹ $16\frac{2}{3}$?

   (1) 50% (2) 25% (3) 75%
   (4) 45% (5) None of these

6. 44% of a number is 275, what is 64% of that number?

   (1) 450 (2) 400 (3) 375
   (4) 500 (5) None of these

7. If the price of one kg. of rice is increased by 25%, the increase is ₹ 12. Find the new price of rice per kg.

   (1) ₹ 48 (2) ₹ 60 (3) ₹ 72
   (4) ₹ 36 (5) None of these

8. Due to fall in manpower, the production in a factory decreases by 20%. By what per cent should the working hour be increased to restore the original production?

   (1) 24% (2) 25% (3) 20%
   (4) 35% (5) None of these

9. Two numbers are respectively 26% and 5% more than a third. What percentage is the first of the second?

   (1) 120% (2) 100% (3) 80%
   (4) 125% (5) None of these

10. A man spends 50% of his income in board and lodging, 20% of the remainder in other personal necessities and 25% of the rest in charity, find his income, if he is left with ₹ 4200.

    (1) ₹ 14000 (2) ₹ 8000 (3) ₹ 12000
    (4) ₹ 18000 (5) None of these

11. A man deposited 30% of the initial amount to his locker. And again after some time he deposited 25% of the increased amount. Now the amount becomes ₹ 13,000. How much was the initial amount?

    (1) ₹ 8000 (2) ₹ 10000 (3) ₹ 12000
    (4) ₹ 9000 (5) None of these

12. The population of a town is 15625. It increases 8 per cent annually. What will it be in 3 years?

    (1) 16983 (2) 18693 (3) 19683
    (4) 19638 (5) None of these

13. The population of a town is 64000. It increases by 10% during the first year. During the second year, it decreases by 25% and increased by 5% during the third year. What is the population after 3 years?

    (1) 654400 (2) 56440 (3) 55450
    (4) 55440 (5) None of these

14. The population of a town increases by 12% during first year and decreases by 10% during second year. If the present population is 50400, what it was 2 years ago?

    (1) 40000 (2) 50000 (3) 42000
    (4) 40400 (5) None of these

15. In a certain year, the population of a certain town wan 9000. If the next year the population of males increases by 5% and that of the females by 8% and the total population increases to 9600, then what was the ratio of population of males and females in that given year?

    (1) 4 : 5 (2) 5 : 4 (3) 2 : 3
    (4) Data inadequate (5) None of these

16. The population of a town is 8000. If the males increase by 9% and the females by 16%, the population will be 9000. Find the number of females in the town.

    (1) 2000 (2) 4500 (3) 3000
    (4) 4000 (5) None of these

17. If the duty on imported sugar be increased by 25 per cent. By how much per cent must a man reduce his consumption of that article so as not to increase his expenditure?

    (1) 20% (2) 25% (3) 16%
    (4) 10% (5) None of these

18. If the price of sugar falls down by 20%, by how much per cent must a householder increase its consumption, so as not to decrease expenditure in this item?

    (1) 25% (2) 20% (3) 30%
    (4) 15% (5) None of these

19. If A's salary is 20% more than that of B, then how much per cent is B's salary less than that of A?

(1) $16\frac{2}{3}\%$ (2) 20% (3) 40%

(4) 10% (5) None of these

20. The salary of a worker was first increased by 10% and thereafter, decreased by 15%. What was the change in his salary?

(1) increase, 6.5% (2) decrease, 6.5%

(3) increase 5.5% (4) decrease 5.5%

(5) None of these

21. A shopkeeper marks the prices of his goods at 26% higher than the original price. Due to increase in demand he again increases by 26%. What profit (in percent) did he get?

(1) 52% (2) 58% (3) 60%

(4) 58.76% (5) None of these

22. The tax on commodity is diminished by 15% and its consumption increases by 10%. Find the effect on revenue.

(1) decrease of 6% (2) decrease of 5%

(3) increase of 6.5% (4) decrease of 6.5%

(5) None of these

23. A student has to secure 30% marks to get through. If he gets 40 marks and fails by 20 marks, find the maximum marks set for the examination.

(1) 600 (2) 200 (3) 100

(4) 300 (5) None of these

24. A student has to secure 15% marks to get through. If he gets 80 marks and fails by 70 marks, find the maximum marks set for the examination.

(1) 100 (2) 1000 (3) 1500

(4) 900 (5) None of these

25. A candidate scores 35% and fails by 40 marks, while another candidate who scores 60% marks, gets 35 marks more than the minimum required marks to pass the examination. Find the maximum marks for the examination.

(1) 300 (2) 200 (3) 350

(4) 450 (5) None of these

26. A candidate scores 46% and fails by 55 marks, while another candidate who scores 81% marks, gets 15 marks more than the minimum required marks to pass the examination. Find the maximum marks for the examination.

(1) 350 (2) 100 (3) 150

(4) 200 (5) None of these

27. In measuring the sides of a rectangle, one side is taken 10% in excess and the other 20% in deficit. Find the error per cent in area calculated from the measurement.

(1) 8% excess (2) 8% deficit (3) 12% excess

(4) 12% deficit (5) None of these

28. If one of the sides of a rectangle is increased by 20% and the other is increased by 10%, find the per cent value by which the area changes.

(1) 32% (2) 30% (3) 36%

(4) 34% (5) None of these

29. In an examination, 10% of the students failed in Maths, 20% failed in English and 5% failed in both. Find the percentage of students who passed in both the subjects.

(1) 75% (2) 70% (3) 85%

(4) 80% (5) None of these

30. In an examination; 45% of the students failed in Maths, 30% failed in English and 15% failed in both. Find the percentage of students who passed in both the subjects.

(1) 70% (2) 40% (3) 25%

(4) 75% (5) None of these

31. A man spends 60% of his income. His income increases by 15% and his expenditure also increases by 5%. Find the percentage increase in his savings.

(1) 30% (2) 15% (3) 20%

(4) 25% (5) None of these

32. A man spends 70% of his income. His income increases by 24% and his expenditure also increase by 15%. Find the percentage increase in his savings.

(1) 35% (2) 24% (3) 45%

(4) 55% (5) None of these

33. A solution of salt and water contains 5% salt by weight. Of it 20 kg water evaporates and the solution now contains 15% of salt. Find the original quantity of solution.

(1) 15 kg. (2) 30 kg. (3) 18 kg.

(4) 24 kg. (5) None of these

34. In a library, 8% of the books are in Hindi, 12% of the remaining are in English and 72% of the remaining are in French. The remaining 3542 books are in regional languages. What is the total number of books in the library?

(1) 16525 (2) 15625 (3) 12655

(4) 16625 (5) None of these

35. What quantity of water should be added to reduce 16 litres of 25% acidic liquid to 20% acidic liquid?

(1) 5 litres (2) 4 litres (3) 12 litres

(4) 8 litres (5) None of these

36. What quantity of water should be added to reduce 6 litres of 50% acidic liquid to 20% acidic liquid?

(1) 8 litres (2) 9 litres (3) 12 litres

(4) 9.5 litres (5) None of these

37. What quantity of water should be taken out to concentrate 12 litres of 30% acidic liquid to 40% acidic liquid.

(1) 4 litres (2) 6 litres (3) 3 litres

(4) 8 litres (5) None of these

38. What quantity of water should be taken out to concentrate 21 litres of 25% acidic liquid to 35% acidic liquid.
(1) 6 litres (2) 8.4 litres (3) 6.4 litres
(4) 8 litres (5) None of these

39. In 50 kg mixture of sand and cement 45% is cement. How much sand should be added so that the proportion of cement becomes 10%?
(1) 175 kg (2) 225 kg (3) 200 kg
(4) 150 kg (5) None of these

40. In an examination the percentage of students qualified to the number of students appeared from school 'A' is 80%. In school 'B' the number of students appeared is 25% more than the students appeared from school 'A' and the number of students qualified from school 'B' is 40% more than the students qualified from school 'A'. What is the percentage of students qualified to the number of students appeared from school 'B'?
(1) 45% (2) 90% (3) 89.5%
(4) 89.6% (5) None of these

41. Rice is now being sold at Rs. 20 per kg. During last month its cost was ₹ 18 per kg. Find by how much per cent a family should reduce its consumption, so as to keep the expenditure the same.
(1) 10% (2) 20% (3) 15%
(4) 5% (5) None of these

42. A reduction of ₹ 2 per kg enables a man to purchase 2 kg more tea for ₹ 8. Find the original price of tea per kg.
(1) ₹ 4 per kg. (2) ₹ 6 per kg. (3) ₹ 2 per kg.
(4) ₹ 3 per kg. (5) None of these

43. A reduction of 20 per cent in the price of tea would enable a purchaser to obtain 4 kg. more for ₹ 100, what is the reduced price, and original price?
(1) ₹ 6.25, ₹ 5 (2) ₹ 5, ₹ 6.25
(3) ₹ 6, ₹ 5.25 (4) ₹ 5.25, ₹ 6
(5) None of these

44. Split the number 150 into two parts such that one part is 25% of the other.
(1) 120, 30 (2) 100, 50 (3) 90, 60
(4) 110, 40 (5) None of these

45. 210 litres of oil was poured into a tank and it was still 30% empty. How much oil must be poured into the tank in order to fill it to the brim?
(1) 60 litres (2) 90 litres (3) 80 litres
(4) 70 litres (5) None of these

46. Find a single equivalent increase, if a number is successively increased by 20%, 25% and 30%.
(1) 90% (2) 75% (3) 95%
(4) 85% (5) None of these

47. Find a single discount equivalent to a discount series of 10%, 15% and 20%.
(1) 45% (2) 38.8% (3) 43.8%
(4) 39.8% (5) None of these

48. The price of wheat is decreased by 25% and its consumption increases by 25%. Find the new expenditure as a ratio of initial expenditure.
(1) 3 : 4 (2) 5 : 4 (3) 16 : 15
(4) 15 : 16 (5) None of these

49. In a recent survey 40% houses contained two or more people. Of those houses containing only one person 25% were having only a male. What is the percentage of all houses which contain exactly one female and no males?
(1) 75 (2) 40 (3) 15
(4) 45 (5) None of these

50. When the price of rice was increased by 32%, a family reduced its consumption in such a way that the expenditure on rice was only 10% more than before. If 30 kg were consumed per month before, find the new monthly consumption.
(1) 25 kg (2) 24 kg (3) 20 kg
(4) 18 kg (5) None of these

PERCENTAGE

1. (2)	**2.** (3)	**3.** (2)	**4.** (1)	**5.** (3)	**6.** (2)	**7.** (2)	**8.** (2)	**9.** (1)	**10.** (1)
11. (1)	**12.** (3)	**13.** (4)	**14.** (2)	**15.** (1)	**16.** (4)	**17.** (1)	**18.** (1)	**19.** (1)	**20.** (2)
21. (4)	**22.** (4)	**23.** (2)	**24.** (2)	**25.** (1)	**26.** (4)	**27.** (4)	**28.** (1)	**29.** (1)	**30.** (2)
31. (1)	**32.** (3)	**33.** (2)	**34.** (2)	**35.** (2)	**36.** (2)	**37.** (3)	**38.** (1)	**39.** (1)	**40.** (4)
41. (1)	**42.** (1)	**43.** (2)	**44.** (1)	**45.** (2)	**46.** (3)	**47.** (2)	**48.** (4)	**49.** (4)	**50.** (1)