

Chp 8
Assignment of comparing quantities

1. Express the following in decimal form:
 - (a) 12%
 - (b) 25%
2. Evaluate the following:
 - (a) 20% of 400
 - (b) $25\frac{1}{2}$ % of 625
3. If 20% of x is 25, then find x.
4. Express the following as a fraction
 - (a) 35%
 - (b) 64%
5. Express the following into per cent
 - (a) $1\frac{3}{5}$
 - (b) 2: 5
6. There are 24% of boys in a school. If the number of girls is 456, find the total number of students in the school.
7. The cost of 15 articles is equal to the selling price of 12 articles. Find the profit per cent.
8. An article is marked at ₹ 940. If it is sold for ₹ 799, then find the discount per cent.
9. A watch was bought for ₹ 2,700 including 8% VAT. Find its price before the VAT was added.
10. A number is increased by 20% and then it is decreased by 20%. Find the net increase or decrease per cent.
11. Two candidates Raman and Rajan contested an election. Raman gets 46% of the valid votes and is defeated by 1600 votes. Find the total number of valid votes cast in the election.
12. A man whose income is ₹ 57,600 a year spends ₹ 43,200 a year. What percentage of his income does he save?
13. A CD player was purchased for ₹ 3,200 and ₹ 560 were spent on its repairs. It was then sold at a gain of $12\frac{1}{2}$ %. How much did the seller receive?
14. A car is marked at ₹ 3, 00,000. The dealer allows successive discounts of 6%, 4% and $2\frac{1}{2}$ % on it. What is the net selling price of it?
15. Ramesh bought a shirt for ₹ 336, including 12% ST and a tie for ₹ 110 including 10% ST. Find the list price (without sales tax) of the shirt and the tie together.
16. Find the amount of ₹ 6,250 at 8% pa compounded annually for 2 years. Also, find the compound interest.
17. Find the compound interest on ₹ 31,250 at 12% pa for $12\frac{1}{2}$ years.

18. Vishakha offers a discount of 20% on all the items at her shop and still makes a profit of 12%. What is the cost price of an article marked at ₹ 280?
19. Find the compound interest on ₹ 48,000 for one year at 8% per annum when compounded half yearly.
20. Find the amount if ₹ 2,000 is invested for 2 years at 4% p.a. compounded annually.
21. A shopkeeper purchased 200 bulbs for Rs.10 each. However 5 bulbs were fused and had to be thrown away. The remaining were sold at Rs 12 each. Find the gain or loss per cent.
22. A second hand Tv is for Rs 2500. And then Rs 500 was spent on its repair and sold for Rs 3300. Find profit/loss percent.
23. What amount has to be paid to on a loan of Rs 12000 for 1½ years at 10% per annum compounded half yearly.
24. The population of a city was Rs20,000 in 1997. It increased at the rate of 5% per annum. Find the population of city at the end of the year 2000.
25. A fan is marked as Rs 15600 and it is available for Rs 12480. Find the discount given and discount percent.
26. Convert $\frac{5}{2}$ as percentage.
27. What should be the current price of the box which was Rs 25000 last year and it increased by 20% this year.
28. Find the population of a city after 2 years, which is at present is 20 lakh, if the rate of increase is 5%p.a.
29. If customers pay VAT to the shopkeeper in addition to selling price, is the VAT a part of profit?
30. What is the formula to calculate the compound interest.
31. Anything spent on an item say cost spent is Rs 15 on its transportation. And the item purchased for Rs 100. The actual cost price of the item for the shopkeeper is Rs 85 or Rs. 115.
32. On which amount the overhead charges are added CP or SP.
33. What should be the sales tax when cost of doll is Rs750 and sales tax is charged 5%. Also find bill amount.
34. A sum of Rs 10,000 is borrowed at a rate of interest 15%p.a. for 2 years. Find simple interest and the amount to be paid at the end of 2 years.
35. Mario invested Rs8,000 in a domain. She would be paid interest at 5% per annum calculated annually. Find: (i) the amount credited against his name at end of third year.
36. The cost of shoes was Rs. 700. The sales tax charged was 10%. Find the bill amount.
37. What should be price before VAT of a pair of shoes for Rs 300 including a tax of 10%.
38. Vanshika got 150 out of 200 and Sakshi got 120 marks out of 180. Whose performance is better?