

Chapter 8 - Comparing Quantities (Practise)

1) A picnic is being planned in a school for Class VIII. Girls are 60% of the total number of students and are 18 in number. The picnic site is 55 km from the school and the transport company is charging at the rate of Rs. 12 per km. The total cost of refreshments will be Rs. 4280.

Find : (i) The ratio of number of girls to the number of boys in the class?

(ii) The cost per head if two teachers are also going with the class?

(iii) If their first stop is at a place 22 km from the school, what per cent of the total distance of 55 km is this? What per cent of the distance is left to be covered?

2) The price of a scooter was Rs. 34,000 last year. It has increased by 20% this year. What is the price now?

3) An item marked at Rs. 840 is sold for Rs. 714. What is the discount and discount %?

4) The list price of a book is Rs. 220. A discount of 20% is announced on sales. What is the amount of discount on it and its sale price.

5) Sohan bought a second hand refrigerator for Rs. 2500, then spent Rs. 500 on its repair and sold it for Rs. 3000. Find his loss or gain per cent.

6) A shopkeeper purchased 200 belts for Rs. 10 each. However 5 belts were fused and had to be thrown away. The remaining were sold at Rs. 12 each. Find the gain or loss %.

7) Meenu bought two fans for Rs. 1200 each. She sold one at a loss of 5% and the other at a profit of 10%. Find the selling price of each. Also find out the total profit or loss.

8) The cost of a pair of roller skate at a shop was Rs. 450. The sales tax charged was 5%. Find the bill amount.

9) Waheda bought an air cooler for Rs. 3300 including a tax of 10%. Find the price of the air cooler before VAT was added.

10) A sum of Rs. 10,000 is borrowed at the rate of interest of 15% per annum for 2 years. Find the simple interest on this sum and the amount to be paid at the end of 2 years.

11) Find CI on Rs. 12,600 for 2 years at 10% per annum compounded annually.

12) What amount is to be repaid on a loan of Rs. 12,000 for $1\frac{1}{2}$ years at 10% per annum compounded half yearly.

- 13) Find CI paid when a sum of Rs. 10,000 is invested for 1 year and 3 months at $8\frac{1}{2}\%$ per annum compounded annually.
- 14) The population of a city was 20,000 in the year 1997. It increased at the rate of 5% pa. Find the population at the end of the year 2000.
- 15) A TV was bought at a price of Rs. 21,000. After one year the value of the TV was depreciated by 5%. Find the value of the TV after one year.
- 16) 72% of 25 students are good in mathematics. How many are not good in mathematics.
- 17) The cost of an article was Rs. 15,500 and Rs. 450 were spent on its repair. If it is sold for a profit of 15%, find the selling price of the article.
- 18) Fabina borrows Rs. 12,500 at 4% pa for 2 years at S.I. and Radha borrows the same amount for 2 years at 10% pa. compounded annually. Who pays more interest and by how much.
- 19) An article marked at Rs. 15,000 is available for Rs. 14,400. Find the discount given and the discount percent.
- 20) A DVD player and TV were bought for Rs. 8000 each. The shopkeeper made a loss of 4% on the DVD player and a profit of 8% on the TV. Find the gain or loss percent on the whole transaction.

21) Fahad invested Rs 60,000 at an interest of 12% per annum compounded half yearly. What amount would he get (a) after 6 months. (b) after one year?

22) The marked price of a book is Rs 500. If it is sold for Rs 460. Find the discount %.

23) Sheela bought a car of Rs 32,000. The next year the price went up to Rs 3,58,000. What is the percentage increase?

24) The price of a mobile phone is Rs 13000. The sale tax charged on it is at the rate of 12%. Find the amount a customer will have to pay for it.

25) The cost of an article was Rs 15,500. Rs 450 were spent on its repairs. If it is sold for a profit of 15%. Find the selling price of the article.

26) Find the difference between Simple interest and compound interest on Rs 8400 at 10% per annum for 2 years. The compound interest being payable annually.