

PROFIT AND LOSS

Q1. Nikunja bought a product for Rs 3,155 including 4.5% sales tax. Find the price before tax was added.

Q2. If principal = Rs 1,00,000 ; rate of interest = 10% compounded half yearly. Find

I) Interest for 6 months.

II) Amount after 6 months.

III) Interest for next 6 months.

IV) Amount after one year.

Q3. The population of a town was decreasing every year due to migration, poverty and employment.

The present population of the town is 6,31,680. Last year the migration was 4% and the year before last, it was 6%. What was the population two years ago?

Q4. If the price of petrol, diesel and LPG is slashed as follows :

Fuel	Old prices/ litre (in Rs)	New price/ litre (in Rs)	% Decrease
Petrol / L	45.62	40.62	_____
Diesel / L	32.86	30.86	_____
LPG/14.2kg	304.70	279.70	_____

Complete the table.

Q5. A store is having a 25% discount sale. Sheela has a Rs 50 gift voucher and wants to use it to buy a board game marked for Rs 320. She is not sure how to calculate the concession she will get. The sales clerk has suggested two ways to calculate the amount payable.

METHOD 1 - Subtract Rs 50 from the price and take 25% off the resulting price.

METHOD 2 - Take 25% off the original price and then subtract Rs 50.

A. Do you think both the methods will give the same result? If not, predict which method will be beneficial for her.

B. For each method, calculate the amount Sheela would have to pay.

Q6. The percent of pure gold in 14 carat gold is about 58.3%. A 14 carat gold ring weighs 7.6 grams. How many grams of pure gold are in the ring?

Q7. On selling a chair for Rs 736, a shopkeeper suffers a loss of 8%. At what price should he sell it so as to gain 8%.

Q8. Soham bought 160 kg of mangoes at Rs 48 per kg. She sold 70% of the mangoes at Rs 70 per kg and the remaining mangoes at Rs 40 per kg. Find Soham's gain or loss percent on the whole dealing.

Q9. An average urban Indian uses about 150 litres of water every day.

Activity	Litres per person per day
Drinking	3
Cooking	4
Bathing	20
Sanitation	40
Washing clothes	40
Washing utensils	20
Gardening	23
Total	150

A) What percent of water is used for bathing and sanitation together per day?

B) How much less percent of water is used for cooking in comparison to that used for bathing?

C) What percent of water is used for drinking, cooking and gardening together?

Q10. Prathiksha purchased 18 coats at the rate of Rs 1,500 each and sold them at a profit of 6%. If customer is to pay sales tax at the rate of 4%, how much will one coat cost to the customer and what will be the total profit earned by Prathiksha after selling all coats?

