

Profit and Loss

MCQ

1) On selling 100 pencils a man gains the selling price of 20 pencils. His gain per cent is

(b) 12% (c) 22% (a) 20% (b) 25%

2) Ravi buys some toffees at 5 for a rupee and sells them at 2 for a rupee. His gain per cent is

(a) 30% (b) 40% (c) 50% (d) 150%

3) Oranges are bought at 5 for ₹ 10 and sold at 6 for ₹ 15. His gain per cent is

(a) 50% (b) 40% (c) 35% (d) 25%

4) By selling a radio for ₹ 950, a man loses 5%. What per cent shall he gain by selling it for 1040?

(a) 4% (b) 4.5% (c) 5%

5) The selling price of an article is 5% above the cost price. The gain per cent is

(d) 9% (a) 20% (b) 25% (c) 30% (d) 120%

VSQ

6) A tea set was bought for ₹528 after getting a discount of 12% on its marked price. Find the marked price of the tea set.

7) A dealer marks his goods at 35% above the cost price and allows a discount of 20% on the marked price. Find his gain or loss per cent.

8) A cell phone was marked at 40% above the cost price and a discount of 30% was given on its marked price. Find the gain or loss per cent made by the shopkeeper.

9) A dealer purchased a fan for ₹ 1080. After allowing a discount of 25% on its marked price, he gains 25%. Find the marked price of the fan.

10) The cost price of 12 candles is equal to the selling price of 15 candles. Find the loss per cent.

LAQ

11) By selling 130 cassettes, a man gains an amount equal to the selling price of 5 cassettes, Find the gain per cent.

12) By selling 45 lemons, a vendor loses a sum equal to the selling price of 3 lemons. Find his loss per cent.

13) Oranges are bought at 6 for ₹20 and sold at 4 for ₹ 18. Find the gain or loss per cent.

14) A vendor purchased bananas at 40 per dozen and sold them at 10 for ₹36. Find his gain or loss per cent.

15) Luxmi sold two sarees for ₹ 1980 each. On one, she lost 10%, while on the other she gained 10%. Find her gain or loss per cent in the whole transaction.

16) A shopkeeper sold two fans for ₹ 1140 each. On one he gains 14%, while on the other he loses 5%. Calculate his gain or loss per cent in the whole transaction.

17) Vinod sold a watch to Arun at a gain of 12% and Arun had to sell it to Manoj at a loss of 5%. If Manoj paid 3990 for it, how much did Vinod pay for the watch?

18) Ahmed buys a plot of land for ₹480000. He sells of it at a loss of 6%. At what gain per cent should he sell the remaining part of the plot to gain 10% on the whole?

19) A grocer bought sugar worth of 4500. He sold one-third of it at a gain of 10%. At what gain per cent must the remaining sugar be sold to have a gain of 12% on the whole?

DIRECT AND INVERSE VARIATION

MCQ

1) If 14kg of pulses cost ₹882, the cost of 22kg of pulses will be

- a) ₹1254 b) ₹1298 c) ₹1342 d) ₹1386

2) 6 pipes fill a tank in 120 minutes, then 5 pipes will fill it in

- a)100 min. b)144 min. c)140 min. d)108 min.

3) 35 men can reap a field in 8 days, in how many days can 20 men reap it?

- a)14days b)28 days c)87.5 days d)none of these

4) x and y vary inversely. When $x=15$, then $y=6$. What will be the value of y if $x=9$?

- a)10 b)15 c)54 d)135

5) Rani types 510 words in half an hour. How many words would she type in 10 minutes?

- a)85 b)150 c)170 d)153

VSQ

6) The railway fare for 61 km is 183. Find the fare for 53 km.

7) 10 people can dig a trench in 6 days. How many people can dig it in 4 days?

8) A garrison of 900 men had provisions for 42 days. However, a reinforcement of 500 men arrived. For how many days will the food last now?

9) In a hostel, 75 students had food provision for 24 days. If 15 students leave the hostel, for how many days would the food provision last?

10) A car is travelling at the average speed of 50 km/hr. How much distance would it travel in 1 hour 12 minutes?

LAQ:

11) A school has 9 a day each of 40 minutes duration. How long would each period be if the school has 8 periods a day, assuming the number of school hours to be the same?

12) In a fort, 300 men had a provisions for 90 days. After 20 days, 50 men left the fort. How long would the food last at the same rate?

13) A train is moving at a uniform speed of 75 km/hr.

(i) How far will it travel in 24 minutes?

(ii) In how much time will it cover 175 km?

14) vertical pole 5 m 60 cm high casts a shadow 3 m 20 cm long. Find at the same time

(i) the length of shadow cast by another pole 10m 50 cm high

(ii) the height of a pole which casts a shadow 5 m long.

15) 11 men can dig 67-metre-long trench 4 in one day. How many men should be employed for digging 27-metre-long trench of the same type in one day?

— x ——— x ————— x ————— x ————— x —————