

**IEM KOLKATA**  
**PROFIT AND LOSS**

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Q1) Ajay incurred a loss of 20% by selling a vase for ₹2880. To get a profit of 20% at what price should he sell the vase?

Q2) Ramesh sells paper planes at the rate of 20 planes for ₹1. If he gets profit of 20%, how many planes did he buy with ₹1?

Q3) Uma wants to gain 15% profit on her sale of sugar. She buys 120 kg of sugar at ₹24 per kg to mix with 180kg of sugar bought at ₹28 per kg. She sells the sugar mix at....?

Q4) Rohan buys some oranges in a shop at 4 per rupee. She goes to another shop and buys same number of oranges at 5 per rupee. She then combines them in a basket and sells them at 4 per rupee. Will she get a profit or loss? And how much?

Q5) Ramesh gets a profit of 20% in one trade and suffers a loss of 20% in the second, where he sells 2 cycles for ₹4000 each. What is his profit or loss in the entire trade?

Q6) Simran bought pet food worth ₹56000. She then sold  $\frac{1}{3}$ rd of it incurring a loss of 40%. What profit she must earn on the rest of the supplies to nullify this loss?

Q7) A sold a car to B at a profit of 25%. B incurred loss of 15% while selling the same car to C. A spent ₹50000 for this car. At what price did C buy it?

Q8) A cheater manipulated his weighing machine so that it shows 1 kg for 970 grams. How much profit does he get?

Q9) Rohit got profit of  $11\frac{1}{2}\%$  by selling his old car. However he realized that had he sold it for ₹8100 more, his profit would be 38.5%. At what price did he buy the car?

Q10) Suman sells 40 fans at 10% profit. He wants a total of 20% profit on the entire sale. Since he got 160 fans at a rate of ₹100 each, at what profit must he sell the remaining fans?

Q11) Rohini buys 160 chocolates for ₹480. She wanted to earn 30% profit by selling them. But when Rakesh visited her, she gave him 25% of those chocolates at the cost

price itself. But even after doing this, she earned a profit of 30% as decided. For how much did she sell each chocolate?

Q12) Ramesh sold a statue for a price 25% higher than the original price of the statue. He had however bought the statue at 20% discount on the original price. With the profit of ₹2025, find the original price of the statue.

Q13) A shopkeeper earns a profit of 15% after selling a book at 20% discount on the printed price. The ratio of the cost price and printed price of the book is ?

Q14) The ratio of cost price and selling price is 4:5. The profit percent is?

Q15) If selling price of 40 articles is equal to cost price of 50 articles, the loss or gain percent is?

Q16) A fruit seller buys lemons at 2 for a rupee and sells them at 5 for 3 rupees. His gain percent is?