

## Worksheet

- Fill in the blanks.
  - $\text{loss \%} = \frac{\text{loss}}{?} \times 100$
  - $\text{profit \%} = \frac{\text{profit}}{?} \times 100$
  - If  $\text{SP} = ₹ 760$ ,  $\text{loss} = ₹ 32$ , then  $\text{CP} = \underline{\hspace{2cm}}$ .
  - If  $\text{discount} = ₹ 44$ ,  $\text{SP} = ₹ 546$ , then  $\text{MP} = \underline{\hspace{2cm}}$ .
  - If  $\text{CP} = ₹ 500$ ,  $\text{loss} = 24\%$ , then  $\text{SP} = ₹ \underline{\hspace{2cm}}$ .
- Classify the following as True or False statement.
  - $\text{Loss} = \text{CP} - \text{SP}$
  - $\text{Profit} = \frac{\text{SP} + \text{CP}}{2}$
  - $\text{SP} = \left(1 + \frac{\text{loss}}{100}\right) \times \text{CP}$
  - Marked price + selling price = discount
  - $\text{Discount \%} = \left(\frac{\text{discount}}{\text{cost price}}\right) \times 100$
- Find profit or loss per cent when:
  - $\text{SP} = ₹ 378$ ,  $\text{CP} = ₹ 540$
  - $\text{SP} = ₹ 30.50$ ,  $\text{CP} = ₹ 25$
- Deepak bought a shirt for ₹ 480. Find the selling price if it is sold at
  - 12% profit
  - 15% loss
- If the selling price of 20 pencils is equal to the cost price of 18 pencils, find the profit or loss per cent.
- Rahul purchased 500 bananas at the rate of ₹ 36 per dozen. 12% of them got rotten and could not be sold. If he sold the remaining bananas at the rate ₹ 48 per dozen, find the profit or loss percentage.
- A trader purchased 70 notebooks at the rate of ₹ 96 per dozen and spent ₹ 40 towards transportation. If he wants to earn a profit of 40%, at what price should he sell each book?
- Neeraj bought a suitcase with 10% discount on the marked price. He sold the suitcase for ₹ 2200 with 20% profit on the cost price. At what price did he buy the suitcase?
- On selling 18 toy cars at ₹ 650 each there is a loss equal to the price of 5 toy cars. What is the cost price of a toy car?
- Namita sold a computer at a loss of 10%. Had it been sold ₹ 2500 more she would have made a profit of 10%. Find the cost price of the computer.
- A shopkeeper made a profit of 12% on selling an article for ₹ 1680. Find his profit or loss per cent if same article is sold for ₹ 1200.
- A vegetable shop owner bought 10 kg of tomatoes from a wholesaler. The shop owner sells 3 kg of tomatoes at 10% profit, 4 kg at 15% profit and the remaining tomatoes at 20% profit. How much profit in total did he earn if he had bought the tomatoes for ₹ 40 per 10 kg?

13. A pair of slippers is marked at ₹ 450 and the offered discount is ₹ 60. What is the discount per cent?
14. A shopkeeper fixes the marked price of an item 35% above its cost price. What is the percentage of discount allowed to gain 20%?
15. A shopkeeper gives 12% additional discount on the discounted price after giving an initial discount of 20% on the marked price of a DVD. If the final sale price of the DVD is ₹ 1056, then what is its marked price?
16. The marked price of an article is ₹ 1050. If a shopkeeper offered two successive discounts of 10% and 5%, find the selling price of the article after discount.
17. Which is a better deal : 50% discount or (30% + 20% discount).
18. Find the single discount which is equivalent to two successive discounts of 50% and 40%.
19. The marked price of a sofa set is ₹ 25000. Discount offered is 20% and GST is charged at 18%. Calculate the price the customer is required to pay for the sofa set.
20. Charu bought a television for ₹ 24,780 including 18% of GST. Find the price of television before GST was included.

## Answers to Worksheet

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|-----------------------|------------------|---------------------------|--------------|--------------|
| 1. a. CP              | b. CP            | c. ₹ 792                  | d. ₹ 590     | e. ₹ 380     |
| 2. a. T               | b. F             | c. F                      | d. F         | e. F         |
| 3. a. 30% loss        | b. 22% profit    | 4. a. ₹ 537.60            | b. ₹ 408     |              |
| 5. Loss 10% (approx)  |                  | 6. Profit 17.33% (approx) |              | 7. ₹ 12      |
| 8. ₹ 1833.33 (approx) |                  | 9. ₹ 900                  | 10. ₹ 12,500 | 11. 20% loss |
| 12. 15%               | 13. 13.33%       | 14. 11.11% (approx)       |              | 15. ₹ 1500   |
| 16. ₹ 897.75          | 17. 50% discount |                           | 18. 70%      | 19. ₹ 23600  |
| 20. ₹ 21000           |                  |                           |              |              |