



**GRADE -8**

**Question Bank - MATHEMATICS**

2024-'25

**CHAPTER -9**

**APPLICATIONS OF PERCENTAGE**

Name : .....

Date:.....

MCQ :

Choose the correct option.

- 1) The change in a number which is first increased by 20% and then decreased by 20% is  
a) No change    b) A decrease by 4%    c) An increase by 4%    d) An increase by 1%
- 2) If 20% of a number is 40, then the number is  
a) 80            b) 120            c) 160            d) 200
- 3) While buying and selling an item, the overhead expenses should be added to the  
a) cost price    b) selling price    c) profit            d) loss
- 4) If the marked price of an article is `50 and if a discount of 5% is given on it, then the selling price of the article is  
a) 2.50          b) `5              c) `45              d) `47.50
- 5) What is the selling price of an article with an original price of `800, if a VAT of 10% is levied on it?  
a) `80            b) `720            c) `800            d) `880

Fill in the blanks.

- 1)  $0.57 = \frac{?}{100} = \underline{\hspace{2cm}} \%$
- 2)  $64\% = \underline{\hspace{2cm}}$  (decimal)
- 3)  $1 : 2 = \frac{?}{100} = \underline{\hspace{2cm}} \%$
- 4)  $35\% \text{ of } 400 = \underline{\hspace{2cm}}$
- 5)  $11 \text{ kg out of } 25 \text{ kg} = \underline{\hspace{2cm}} \%$
- 6)  $12.5 \text{ cm out of } 1 \text{ m} = \underline{\hspace{2cm}} \%$
- 7)  $40\% \text{ of } \underline{\hspace{2cm}} = 12$
- 8) Cost price = ₹55; profit = 10%; selling price = ₹
- 9) Marked price = ₹250; discount = 20%; selling price = ₹
- 10) Price = ₹60; sales tax = 4%; selling price = ₹

**ANSWER THE FOLLOWING QUESTIONS:**

- 1) Mrs. Gita spends 5% of her savings on charity every month. If she has saved Rs.986 this month, how much will she spend on charity?
- 2) The cost of CNG was reduced from ₹66.65 to ₹64.25 per kg. What is the percentage of reduction?
- 3) A person bought a copier machine for ₹15000 and spent ₹2100 on transporting it. He then sold the machine for a loss of 15%. At what price did he sell the machine?
- 4) Find the percentage of discount on a mobile phone sold for ₹3500 after a discount of ₹350.
- 5) Find the single discount equivalent to two successive discounts of 5% and 10%.
  - 1) 10% of apples produced in an orchard are rotten. 8% of the good ones are damaged in transit. If the original yield was 10,000 apples in a season, how many good apples reached the destination safely?
  - 6) The value of a plot of land rises by 10% annually. If its value is ₹1,50,000 now, what will the plot be worth after 3 years?
  - 7) The price of my scooter is 10% less than my neighbour's. If my scooter costs ₹35,200 find the price of my neighbour's scooter.

**8)** A hotel bill amounted to ₹240. If a VAT of 5% was charged, what was the amount of the final bill?

**9)** The price of a grinder is ₹8480 including 6% VAT. What is the original price of the grinder?

**10)** Manpreet and Pooja went to a restaurant and ordered 2 cups of coffee for ₹75 and a plate of cheese toast for ₹150. Their bill including GST came to ₹265.50. Calculate the rate of GST.