



Worksheet

Grade 7 - Mathematics

Chapter 8 – Unitary Method and Percentage

A. Choose the correct option.

- 1) The ratio of apples : oranges is 3 : 5. If there are 32 fruits, the number of apples is:
a) 12 b) 20 c) 9 d) 15
- 2) If $1 : 3 :: 2 : x$ is a proportion, the value of x is:
a) 4 b) 6 c) 3 d) 2
- 3) 65% expressed as a fraction is :
a) $\frac{11}{20}$ b) $\frac{13}{100}$ c) $\frac{13}{20}$ d) $\frac{13}{30}$
- 4) 220% expressed as a decimal is :
a) 22.0 b) 0.22 c) 2.20 d) 0.022
- 5) 220% expressed as a decimal is:
a) ₹100 b) ₹500 c) ₹1000 d) ₹2000

B. State whether true or false.

- 1) Ratio is a comparison of quantities by division.
- 2) Percentage is a ratio where the second term is 100.
- 3) 0.5% can be written as 0.5 in decimals.
- 4) If the cost price is greater than the selling price, there is profit.
- 5) If the simple interest for one year is ₹100, for 2 years it will be ₹100.

C. Fill in the blanks.

- 1) 75 : 60 in lowest terms is _____

- 2) $\frac{18}{45}$ as percentage is _____
- 3) 15% of 300 is _____
- 4) 75% of _____ is 9
- 5) If cost price is ₹120 and profit is ₹12, selling price is _____
- 6) If marked price is ₹500 and discount is ₹10%, selling price is = _____
- 7) If an item is bought for ₹250 and sold for ₹300, the profit per cent is _____
- 8) Simple interest on a sum of ₹800 for a year is ₹32. The interest rate is _____ p.a.

C. Answer the following questions.

- 1) Express the following ratios in the lowest terms
- a) 6 : 12 b) 63 : 45 c) 99 : 132
- 2) Express as percentage.
- a) $\frac{9}{20}$ b) $\frac{48}{60}$ c) $\frac{84}{70}$
- 3) Express as fraction in the lowest terms.
- a) 24% b) 75% c) 180%
- 4) Express as decimals.
- a) 63% b) 121% c) 38%
- 5) Check whether the following form proportion.
- a) 2 : 24 :: 6 :: 72 b) 3 : 39 :: 65 :: 5 c) 5 : 75 :: 9 :: 135
- 6) Find the missing quantity in proportions.
- a) 4 : 5 :: 12 : _____ b) 6 : _____ :: 30 : 20 c) 18 : 2 :: _____ : 8

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