



SHREE VASISHTHA VIDHYALAYA

Maths Worksheet 2025-26



Name : - _____

Std.:- V - _____

Roll No. :- _____ Term-2 Worksheet no. 1

Date : - _____

Chapter:- 13-Topics in Commercial Arithmetic

14-Average

Q. 1) Choose the correct option.

- If the Selling Price (SP) is greater than the Cost Price (CP), there is:
 - Loss
 - Profit
 - No profit no loss
- A shopkeeper buys a toy for ₹200 and sells it for ₹250. What is the profit?
 - ₹30
 - ₹40
 - ₹50
- The marks obtained by a student in 3 subjects are 60, 70, and 80. What is the average marks?
 - 65
 - 70
 - 75
- SP = CP _____
 - + Profit
 - Profit
 - + Loss
- 80 % of 300 is _____
 - 8300
 - 240
 - 24000
- CP of an article is ₹600. It is sold at a profit of ₹75. The SP is:
 - ₹650
 - ₹675
 - ₹680

Q.2) Fill in the blanks:

- SP = Rs 900, Loss = Rs 70, CP = 970.
- 12.20 = 1220 %
- If the average of 4 children's ages is 12 years, their total age is 48 years.
- 1 score = 20 items
- 1 gross = 12 dozen
- The average of 5 numbers is 10, their sum is 50.
- Overheads such as repair cost, transportation charges, etc., are added to the Cost price.

Q.3) Write "T" for True and "F" False statements.

- Average is always greater than the largest number.
- Loss occurs when SP is greater than CP
- 80 % of 1.2 kg = 960 g.
- Average = $\frac{\text{Sum of numbers}}{\text{Number of addends}}$.
- If average is 20 for 3 items, their total is 60.

F
F
T
T
T

Q.4) Do as directed.

a) Find the average of First 6 multiples of 12

$$\frac{12 + 24 + 36 + 48 + 60 + 72}{6}$$

$$= \frac{252}{6}$$

$$= \boxed{42}$$

b) Find the average of : 55 , 50 , 48 , 27

$$\frac{55 + 50 + 48 + 27}{4}$$

$$= \frac{180}{4}$$

$$= \boxed{45}$$

c) Find the average of: 89, 102, 105, 99, 110

$$= \frac{89 + 102 + 105 + 99 + 110}{5}$$

$$= \frac{505}{5}$$

$$= \boxed{101}$$

d) Find the average of First 10 EVEN numbers

$$= \frac{2 + 4 + 6 + 8 + 10 + 12 + 14 + 16 + 18 + 20}{10}$$

$$= \frac{110}{10}$$

$$= \boxed{11}$$

Q.5) Word problems.

1) A trader buys a chair for ₹1,250. He sells it at a loss of ₹150.

(a) Find the SP

$$\text{Loss} = \text{CP} - \text{SP}$$

$$\text{SP} = \text{CP} - \text{Loss}$$

$$\begin{array}{r} \text{SP} = ₹1250 \\ - ₹150 \\ \hline 1100 \end{array}$$

$$\boxed{\text{SP} = ₹1100}$$

b) How much more should he sell it to make a profit of ₹100?

$$\text{CP} = ₹1250 \quad \text{Profit} = ₹100 \quad \text{SP} = ?$$

$$\text{Profit} = \text{SP} - \text{CP}$$

$$\text{SP} = \text{Profit} + \text{CP}$$

$$\text{SP} = ₹100 + ₹1250$$

$$= \boxed{₹1350}$$

He needs to sell it at ₹1350

2) A shopkeeper buys 10 pens for ₹18 each and sells all of them for ₹200. Find the total profit or loss.

$$\text{Cost of 1 Pen} = ₹18$$

$$\begin{array}{l} \text{Cost of 10 Pens} = ₹18 \times 10 \\ = \boxed{₹180} \end{array}$$

$$\text{SP} = ₹200$$

$$\text{SP} > \text{CP} = \text{Profit}$$

$$\text{Profit} = \text{SP} - \text{CP}$$

$$= ₹200 - ₹180$$

$$\text{Profit} = \boxed{₹20}$$

3) At a factory, three workers produced 87, 93 and 102 units respectively in one day. What is the average production in units of these three workers?

$$\text{Production of worker-1} = 87 \text{ units}$$

$$\text{Worker-2} = 93 \text{ units}$$

$$\text{Worker-3} = 102 \text{ units}$$

$$\text{Average} = \frac{87 + 93 + 102}{3}$$

$$= \frac{282}{3}$$

$$= \boxed{94}$$

4) Rashid incurred a loss of ₹ 590 on a chair. He sold at ₹ 1,280. What was the cost price of the chair?

$$\begin{aligned}
 \text{Loss} &= ₹ 590 \\
 \text{SP} &= ₹ 1280 \\
 \text{Loss} &= \text{CP} - \text{SP} \\
 \text{CP} &= \text{Loss} + \text{SP} \\
 &= ₹ 590 + ₹ 1280 \\
 &= \boxed{₹ 1870}
 \end{aligned}$$

Cost price of the chair was ₹ 1870

5) A painting was bought for ₹ 45,895. The frame was changed for ₹ 2,060. It was finally sold for ₹ 51,080. What was the loss or gain?

$$\begin{aligned}
 \text{Cost of painting} &= ₹ 45,895 \\
 \text{Cost of frame} &= ₹ 2,060 \\
 \hline
 \text{Total cost} &= ₹ 47,955 \\
 \text{SP} &= ₹ 51,080 \\
 \text{SP} > \text{CP} &= \text{Profit} \\
 \text{Profit} &= \text{SP} - \text{CP}
 \end{aligned}$$

$$\begin{aligned}
 &= ₹ \begin{array}{r} 4 \text{ (10)} \\ 5 \text{ (10)} \\ 1 \text{ (10)} \\ 0 \text{ (10)} \\ 8 \text{ (10)} \\ 0 \end{array} \\
 &\quad - ₹ 47,955 \\
 &\quad \hline
 &\quad ₹ 3,125 \\
 \text{Profit} &= \boxed{₹ 3,125}
 \end{aligned}$$

7) A shopkeeper bought a box of apples for ₹ 600 and sold it at a profit of 10%. Find the selling price.

$$\begin{aligned}
 \text{CP} &= ₹ 600 \\
 \text{Profit \%} &= 10\% \\
 &10\% \text{ of } 600 \\
 &= \frac{10}{100} \times 600 \\
 \text{Profit} &= ₹ 60
 \end{aligned}$$

$$\begin{aligned}
 \text{Profit} &= \text{SP} - \text{CP} \\
 \text{SP} &= \text{Profit} + \text{CP} \\
 \text{SP} &= ₹ 60 + ₹ 600 \\
 &= \boxed{₹ 660}
 \end{aligned}$$

Selling price of the box of apple was ₹ 660