# Chapter- 11

# AVERAGE

**WORKSHEET**

1. **Fill in the blanks :**

    a. The _average_ of a set of values is the sum of the values divided by the number of values in the set.

    b. Average is a number which is roughly between the smallest and the _largest_ number or quantity.

    c. The average gives us an idea about the general value of a _____.

    d. The average is the _____ value of the number of given values.

    e. Sum of the values = Average × _The number values_

2. **Do as directed :**

    a) Find the average of 1ˢᵗ five prime numbers.

    Ans. $2+3+5+7+11 = 28 \div 5 = 5 = 5.6$

    b) What is the average weight: 14g, 16g, 36g, 42g

    Ans. $14g + 16 + 36 + 42 = 108 \div 4 = 27$

    c) Find the average if number of item is 15 and the total value of item is 105 .

    Ans. $105 \div 15 = 7$

    d) Find the average of $\dfrac{6}{7}, \dfrac{2}{5}, \dfrac{11}{7}$

    Ans. $\dfrac{6}{7} + \dfrac{2}{5} + \dfrac{11}{7} = \dfrac{36 + 14 + 55}{35} = \dfrac{99}{35}$ ☞ —

    $\dfrac{99}{35} \div 3 = \dfrac{99}{35} \times \dfrac{1}{3} = \dfrac{11}{35}$

e) Find the missing value: No. of item are 21 and average is 21 then Sum of the items is

_____.

Ans.
$$
\begin{array}{r}
21 \\
\times\ 2\ 1 \\
\hline
44\ 1 \\
\end{array}
$$

3. **Solve as per the given instructions:**

a) The average height of a family of five is 150cm, if the height of 4 family members is 153cm, 150cm, 151cm, and 152cm, find the height of the fifth member.

Ans. The height of fifth member = 144

The average height of five, family = 150cm
The average heights of 4 family = 153 +
150+151+152 = 606
Height of 5th member = 750 - 606 = 144

b) The average of 5 numbers is 25 and the average of another 5 numbers is 35. Find the average of the 10 numbers taken together.

Ans. The sum of the first 5 numbers = 125
The sum of the second 5 numbers = 325
The average of 10 numbers = 450

c) Mini's father earns on an average ₹ 9800 a week. How much does he earn in 52 weeks?

Ans. Average of mony Mini's father earns in a week = 9800 ₹
Amount of mony Min's father earns in 52 weeks = 9800 × 52 = 509600

d) 8 students of a class went for medical checkup. The table below shows the record of their weight and age. Find the average **age** and **weight** of the students

| Name | Age | Weight |
|------|-----|--------|
| Sonali | 11 years 10 months | 33kg |
| Vandana | 12 years | 34kg |
| Rohit | 12 years 7 months | 38kg |
| Shweta | 11 years 6 months | 33kg |
| Vaibhav | 13 years | 36kg |
| Manik | 12 years | 32kg |
| Zakir | 11 years 11 months | 36kg |
| Chris | 13 years 2 months | 38kg |

Ans. $11\frac{5}{6} + 12 + 12\frac{7}{12} + 11\frac{1}{2} + 13 + 12 + 11\frac{11}{12} + 13\frac{1}{6}$

$= 11 + 12 + 12 + 11 + 13 + 12 + 11 + 13 + \left( \underline{10 + 7 + 6 + 11 + 2} \right.$

$= 93 + \frac{36}{12} = 93 + 96 \cdot 3 = 96$   Avg $= 96 \div 8$  3

$= 12$                                             36

Weight $= 33 + 34 + 38 + 33 + 36 + 32 + 38 = 283$

Avg $= 283 \div 8 = 45$

e) Find the average of 11.35, 12.65, 11, 7.25, 14.85, 15.55

Ans. $11.35 + 12.65 + 11 + 7.25 + 14.85 + 15.55 = 12.108$