



CLASS NOTES-ANSWERS

Exercise 2.4

1. Find the average of each set of data.

a. 23, 16, 27, 34

b. 67, 83, 49, 77

c. 91, 105, 120, 86, 123

d. 162, 827, 365, 201, 320

Answer: $AVERAGE = \frac{\text{Total number or amount}}{\text{Number of addends}}$

a. 23, 16, 27, 34

$$\text{Average} = \frac{23+16+27+34}{4} = \frac{100}{4} = 25$$

b. 67, 83, 49, 77

$$\text{Average} = \frac{67+83+49+77}{4} = \frac{276}{4} = 69$$

c. 91, 105, 120, 86, 123

$$\text{Average} = \frac{91+105+120+86+123}{5} = \frac{525}{5} = 105$$

d. 162, 827, 365, 201, 320

$$\text{Average} = \frac{162+827+365+201+320}{5} = \frac{1875}{5} = 375$$

2. Find the average of the first 6 multiples of 4.

Answer:

The first 6 multiples of 4 = 4, 8, 12, 16, 20, 24

$$\text{Average} = \frac{4+8+12+16+20+24}{6} = \frac{84}{6} = 14$$

3. Find the average of the first 10 odd numbers.

Answer:

The first 10 odd numbers = 1, 3, 5, 7, 9, 11, 13, 15, 17, 19



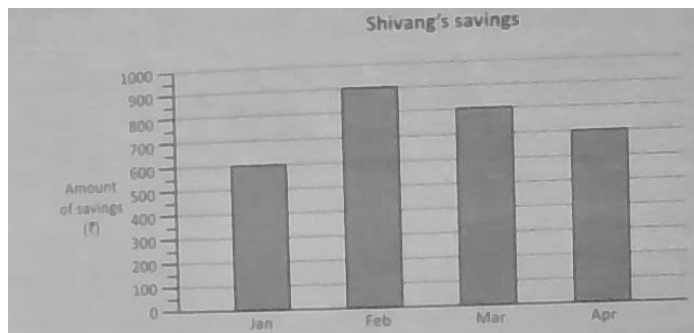
$$\text{Average} = \frac{1+3+5+7+9+11+13+15+17+19}{10} = \frac{100}{10} = 10$$

4. The ages (in years) of 9 members of a society club are as follows: 45, 55, 42, 62, 57, 49, 40, 49, 60. Find the average age of the numbers.

Answer:

$$\begin{aligned} \text{The average age of the numbers} &= \frac{45+55+42+62+57+49+40+49+60}{9} \\ &= 51 \text{ years} \end{aligned}$$

5. The bar graph below shows Shivang's savings over 4 months.



- What is his average amount of savings for the 4 months?
- In which month(s) was his savings below average?
- In which month(s) was his savings above average?

Answer:

$$\begin{aligned} \text{a. His average amount of savings for the 4 months} &= \frac{600+900+800+700}{4} \\ &= \frac{3000}{4} \\ &= ₹ 750 \end{aligned}$$

- January and April
- February and March