Class-5

Subject-Mathematics

Chapter-8 (Average)

Lecture Sheet – 5

Creative Question

1. Salma's age is 11 years. Arif is 2 years older than Salma. Tanin is 2 years older than Arif.
   a. Find the average age of Salma and Arif.
   b. What is the average age of Salma, Tanin and Arif?
   c. What is the difference between age of Salma and Tanin?

Solution:

a) Given,

Salma's age = 11 years

Arif's age = (11+2) years

= 13 years

∴ Sum of quantities = (11+13) years

= 24 years

Number of quantities = 2

We know,

$$\text{Average} = \frac{\text{Sum of quantities}}{\text{Number of quantities}}$$

$$= \frac{24}{2} \text{ years}$$

= 12 years

Ans: 12 years.

b) Given,

Salma's age = 11 years

Arif's age = 13 years

Tanin's age = (13+2) years

= 15 years

∴ Sum of quantities = (11+13+15) years

= 39 years

Number of quantities = 3

We know,

$$\text{Average} = \frac{\text{Sum of quantities}}{\text{Number of quantities}}$$

$$= \frac{39}{3} \text{ years}$$

= 13 years

Ans: 13 years.

c) Tanin's age = 15 years

Salma's age = 11 years

∴ Difference = 4 years

Ans: 4 years.

2. The runs of Tamim and Sakib of 5 one day matches are given below-

Tamim	85	72	57	93	88
Sakib	70	66	71	47	61

a. Find the average run of Tamim?
b. Find the average run of Sakib?
c. What is the difference between the average run of Tamim and that of Sakib?

Solution:

a) Sum of quantities = (85+72+57+93+88) runs

= 395 runs

Number of quantities = 5

We know,

$$\text{Average} = \frac{\text{Sum of quantities}}{\text{Number of quantities}}$$

$$= \frac{395}{5} \text{ runs}$$

= 79 runs

Ans: Average run of Tamim is 79.

b) Sum of quantities = (70+66+71+47+61) runs

= 315 runs

Number of quantities = 5

We know,

$$\text{Average} = \frac{\text{Sum of quantities}}{\text{Number of quantities}}$$

$$= \frac{315}{5} \text{ runs}$$

= 63 runs

Ans: Average run of Sakib is 63.

c) The average run of Tamim = 79

The average run of Sakib = 63

∴ Difference = 16

Ans : 16 runs.

Exercise

1. The table shows below the amount of milk taken from one cow last week.

Day	Saturday	Sun	Mon	Tues	Wed	Thurs	Fri
Milk (L)	16	18	17	13	17	14	16

  a. Find the average amount of milk that the cow gave in the last 3 days.

  b. Find the average amount of milk that the cow gave in the last 4 days.

  c. Find the difference of the average amount of milk between the 1st 3 days and last 4 days.

2. The price of 7 tennis ball is 406 taka. The average price of 1st 3 balls is 58 taka and last 3 balls are 55 taka.
   a. What is the average price of the balls?
   b. What is the price of 4th ball?
   c. Difference between the total price of 1st 3 balls and last 3 balls is the average price of 10 pens. What is the total price of 10 pens?

3. In one day series of 5 matches. Nasir made 60, 30, 0, 45 and 15 runs respectively.
   a. What was his average run for the 1st 3 matches?
   b. What was the average runs for the last 4 matches?
   c. What was his average runs for the 1st, 3rd and 5th matches?
   d. What was his average run for all the matches?

4. During the month of December the average rice sold in a shop during the 1st 15 days was 41 kg. The next 15 days average was 34 kg and 22 kg rice sold on the last day.
   a. What is the total amount of rice sold in the first 15 days?
   b. What is the total amount of rice sold in the month?
   c. If the 53 kg rice sold in last day, what is the average daily sold in this month?