MONTH : NOVEMBER

SESSION : 6

CLASS : V

SUBJECT : MATHEMATICS

CHAPTER NUMBER: 11

CHAPTER NAME : AVERAGE

SUB-TOPIC : FINDING THE SUM OF THE QUANTITIES WHEN AVERAGE IS GIVEN.

EXERCISE 11 A 9 TO 11

CHANGING YOUR TOMORROW

LEARNING OBJECTIVE :

Enable the students

- To know the use of the word "*Average*"
- Know about the concept of average
- Need of finding average
- Finding the sum of the quantities of given average.

As we know

Average Formula $= \dfrac{\text{Total Sum of All Numbers}}{\text{Number of Item in the Set}}$

➢ Total sum of the quantities= Average x No. of observations / quantities

Example : 1

Daisy's father earns on an average ₹ 4300 a week. How much does he earn in a year of 52 weeks.

Solution:

Average earning of daisy's father in a week = ₹ 4300

Total earning in a year = ₹4300 x 52

= ₹ 2,23,600

- He earns **₹ 2,23,600** in a year of 52 weeks.

9. Srikanth's average marks in 6 subjects in an examination were 65. he scored 64 in English, 68 in Hindi, 58 in Maths, 55 in Science and 70 in History. How many marks did he get in Geography?

ROUGH

Solution

Average marks in 6 subject = 65

Total marks scored= 65 x 6 = 390

A/q total marks scored in five subject= 315

Marks scored in Geography = 390 – 315 **=75**

∴ He got 75 in geography.

$$\begin{array}{r} 64 \\ 68 \\ 58 \\ +\ 55 \\ 70 \\ \hline 315 \end{array}$$

$$\begin{array}{r} 390 \\ -\ 315 \\ \hline 75 \end{array}$$

10. The average weight of a group of 8 children is 25.6 kg. The average weight of another group of 7 children is 26.2 kg. Find the average weight of the group of 15 children.
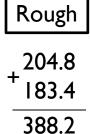
Solution :

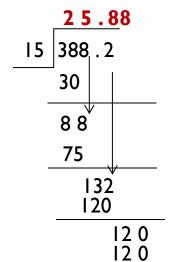Average weight of 8 children = 25.6 kg

Total weight of 8 children = 25.6 x 8 = 204.8 kg

Average weight of 7 children = 26.2 kg

Total weight of 7 children = 26.2 x 7 = 183.4 kg

Total weight of 15 children = 204.8 kg + 183.4 kg = 388.2 kg

Average weight of 15 children = $\dfrac{388.2}{15}$ = 25.88 kg

Rough

$$
\begin{array}{r}
204.8 \\
+\ 183.4 \\
\hline
388.2
\end{array}
$$

$$
\begin{array}{r}
2\ 5\ .\ 88 \\
15\ \overline{)388\ .\ 2} \\
30 \\
\hline
8\ 8 \\
75 \\
\hline
132 \\
120 \\
\hline
12\ 0 \\
12\ 0 \\
\hline
0
\end{array}
$$

11. The average age of 10 children is 9 years 9 months. The average age of 9 children is 8 years 11 months. What is the age of the tenth child?
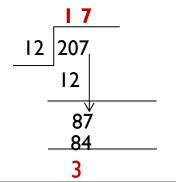
Solution :

Rough

The average age of 10 children = 117 months

Total age of 10 children = 117 x 10 = 1170 months

The average age of 9 children = 107months

Total age of 9 children = 107 x 9 = 963 months

The age of the tenth child = 1170 – 963 = 207 months

= 17 years 3 months

9 y 9 m =
9 x 12 + 9 =
108 + 9= 117 m

8y 11 m=
8 x 12 + 11=
96 +11= 107 m

```
        1 7
12 | 207
     12
    ----
      87
      84
    ----
       3
```

➢ **Complete exercise 11 A no.12 in the note book.**

Students are able to:

❖ **Find the sum of the quantities of given Average**

THANKING YOU
ODM EDUCATIONAL GROUP