

H+D
11.11.2021

Exercise - 11(A)

11. Solution

Average age of 10 children = 9 years 9 months

Average Age of 10 children = 10 x 9 years 9 months

= 90 years 90 months

Average age of 9 children = 8 y 11 months

Age of ~~9~~ children = 8 years 11 months x 9

= ~~72~~ 72 years 99 months

Age of ~~total~~ tenth child = 90 years 90 months - 72 years

99 months

= 97 years 6 months - 80 years

3 months

= 17 years 3 months

So, the average age of the tenth child is 17 years 3 months

12

Solution

Average of 1st nine numbers = 21

$$\begin{aligned}\text{Sum of 9 numbers} &= 21 \times 9 \\ &= 189\end{aligned}$$

Average of last three numbers = 17

$$\begin{aligned}\text{Sum of last three numbers} &= 17 \times 3 \\ &= 51\end{aligned}$$

$$\begin{aligned}\text{Average of 12 numbers} &= \frac{189 + 51}{9 + 3} \\ &= \frac{240}{12}\end{aligned}$$

So, the average of 12 numbers is $\frac{240}{12}$