The average of 5 children born at intervals of 2 years is 18 years. What is the age of the youngest child?

A. 10
B. 12
C. 14
D. 16

Show Answer…
Correct Answer: C (14)

Explanation:

Let's solve the problem step by step:

Given:

 • The average age of 5 children born at intervals of 2 years is 18 years.

To find:

 • The age of the youngest child.

We know that the average age is the sum of all ages divided by the number of individuals. In this case, the average age is 18 years for 5 children.

The sum of ages of the 5 children can be calculated by multiplying the average age (18 years) by the number of children (5):

 Sum of ages = Average age * Number of children
 Sum of ages = 18 years * 5 = 90 years

Now, let's calculate the ages of the children based on the given information:

The average of 5 children born at intervals of 2 years is 18 years. What is the age of the youngest child?

Let the ages of the children be x, x+2, x+4, x+6, and x+8 (where x is the age of the youngest child).

According to the given information, the sum of their ages is 90 years:

$$x + (x+2) + (x+4) + (x+6) + (x+8) = 90$$

Simplifying the equation:
5x + 20 = 90
5x = 70
x = 14

Age of the Youngest Child

Therefore, the age of the youngest child (x) is 14 years.

The correct answer is *option C. 14* years.

Therefore, the age of the youngest child is 14 years.