



The average age of three boys is 15 years. If their ages are in a ratio 3: 5: 7, the age of the elder boy is:

**The average age of three boys is 15 years. If their ages are in a ratio 3: 5: 7, the age of the elder boy is:**

- A. 21 years
- B. 18 years
- C. 15 years
- D. 9 years

Show Answer...

**Correct Answer: A (21 years)**

### **Explanation:**

Let the ages of the three boys be  $3x$ ,  $5x$ , and  $7x$ , where  $x$  is a common factor.

According to the given information, the average age of the three boys is 15 years.

Average = (Sum of ages) / (Number of boys)

So, we have:  $15 = (3x + 5x + 7x) / 3$

Now, we can solve for  $x$ :

$$15 = (15x) / 3$$

$$15 * 3 = 15x$$

$$45 = 15x$$

$$x = 3$$

Now, we can find the age of the elder boy ( $7x$ ):

$$\text{Elder boy's age} = 7 * x = 7 * 3 = 21 \text{ years}$$

Therefore, the **age of the elder boy is 21 years.**



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