



Present age of father is 42 years and his son 14 years. Find the ratio of: Age of the father to the age of son, when son was 12 years old.

Present age of the father is 42 years and his son is 14 years. Find the ratio of: Age of the father to the age of the son, when the son was 12 years old?

- A. 10:3
- B. 10:4
- C. 3:10
- D. 4:10

Show Answer...

Correct Answer: A (10 : 3)

Explanation:

Let's find the ratio of the father's age to the son's age when the son was 12 years old.

At present:

Father's age = 42 years

Son's age = 14 years

Let "x" represent the number of years ago when the son was 12 years old. So, x years ago, the son's age was:

Son's age x years ago = $14 - x$

At that time, the father's age was:

Father's age x years ago = $42 - x$

According to the given condition, x years ago, the son was 12 years old:



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Son's age x years ago = 12

Now, we can set up an equation using the information we have:

$$14 - x = 12$$

Solving for "x":

$$x = 14 - 12$$

$$x = 2$$

So, 2 years ago, the son was 12 years old.

Now, to find the ratio of the father's age to the son's age at that time, we can plug in the value of "x" into the expressions for their ages:

$$\text{Father's age 2 years ago} = 42 - 2 = 40 \text{ years}$$

$$\text{Son's age 2 years ago} = 14 - 2 = 12 \text{ years}$$

The ratio of their ages 2 years ago is:

$$\text{Age of Father : Age of Son} = 40 : 12$$

To simplify the ratio, we can divide both sides by their common factor, which is 4:

$$\text{Age of Father : Age of Son} = 10 : 3$$

Therefore, the ratio of the father's age to the son's age when the son was 12 years old is 10:3.

Conclusion

In this question, we used algebraic expressions to find the number of years ago when the son was 12 years old. By setting up an equation based on the given condition, we determined that the son was 12 years old 2 years ago. Then, by finding their ages 2 years ago, we calculated the ratio of the father's age to the son's age, which turned out to be 10:3. Understanding how to solve age-related problems using equations and ratios is essential in mathematics and real-life situations.



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