



The ratio of the son's age to the father's age is  $1 : 4$ . The product of their ages is 196. The ratio of their ages after 5 years will be?

**The ratio of the son's age to the father's age is  $1 : 4$ . The product of their ages is 196. The ratio of their ages after 5 years will be?**

- A.  $4 : 13$
- B.  $3 : 10$
- C.  $4 : 11$
- D.  $5 : 14$

Show Answer...

**Correct Answer: C ( $4 : 11$ )**

## Explanation:

### Math MCQ: Ratio of Ages After 5 Years

Let's solve the problem step by step.

Given:

The ratio of son's age to father's age =  $1 : 4$

The product of their ages = 196

Let "x" represent the age of the son, and "4x" represent the age of the father since the ratio of their ages is  $1 : 4$ .

According to the given information, their ages' product is 196:

$$\Rightarrow x \times 4x = 196$$

$$\Rightarrow 4x^2 = 196$$

$$\Rightarrow x^2 = 49 \text{ Taking the square root of both sides:}$$

$$\Rightarrow x = \sqrt{49}$$

$$\Rightarrow x = 7$$

So, the present age of the son is 7 years, and the present age of the father is  $4x =$



$$4 \times 7 = 28 \text{ years.}$$

The ratio of the son's age to the father's age is  $1 : 4$ . The product of their ages is 196. The ratio of their ages after 5 years will be?

Now, let's find their ages after 5 years:

$$\Rightarrow \text{Son's age after 5 years} = 7 + 5 = 12 \text{ years}$$

$$\Rightarrow \text{Father's age after 5 years} = 28 + 5 = 33 \text{ years}$$

The ratio of their ages after 5 years is:

$$\Rightarrow \text{Age of Son} : \text{Age of Father} = 12 : 33$$

To simplify the ratio, we can divide both sides by their common factor, which is 3:

$$\Rightarrow \text{Age of Son} : \text{Age of Father} = 4 : 11$$

Therefore, the ratio of **the son's age to the father's age after 5 years will be  $4 : 11$ .**



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