The ratio of the ages of two students is 8 : 4, one is older to the other by 10 years. What is the age of the younger student?

A. 5 years
B. 10 years
C. 15 years
D. 20 years

Show Answer…
Correct Answer: B (10 years)

Explanation:

Math MCQ: Age of Two Students
Let’s assume the age of the younger student is “x” years. According to the given information, the ratio of the ages of the two students is 8:4, which simplifies to 2:1.

So, the age of the older student is 2x years.

It is given that the older student is older than the younger student by 10 years. Therefore, we can set up the following equation:

Age of older student (2x) = Age of younger student (x) + 10

Solving for “x”:

2x = x + 10

Subtracting “x” from both sides:

The ratio of the ages of two students is 8 : 4, one is older to the other by 10 years. What is the age of the younger student?

x = 10

Thus, the age of the younger student is 10 years.
And the age of the elder student will be 20 years i.e
their ages are in ratios of 8:4 or 2:1