



What is the ratio of 2.8 meters to 40 centimeters?

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- A. 1:7
- B. 7:1
- C. 1:40
- D. 40:1

Show Answer...

Correct Answer: B (7:1)

Explanation:

To find the ratio of 2.8 meters to 40 centimeters, we need to ensure that both quantities are in the same unit of measurement. Let's convert both quantities to either meters or centimeters. For consistency, we'll convert them both to centimeters.

1 meter = 100 centimeters (since there are 100 centimeters in 1 meter)

2.8 meters = 2.8×100 centimeters = 280 centimeters

Now that we have both quantities in centimeters, the ratio of 2.8 meters to 40 centimeters can be expressed as:

280 centimeters : 40 centimeters

Next, we can simplify this ratio by dividing both quantities by their greatest common divisor (GCD). The GCD of 280 and 40 is 40.

$$280 \div 40 = 7$$

$$40 \div 40 = 1$$

So, the simplified ratio is:

7 : 1



What is the ratio of 2.8 meters to 40 centimeters?

Option B, "7:1," is the correct answer, representing the ratio of 2.8 meters to 40 centimeters.

Option A, "1:7," is incorrect because it reverses the order of the ratio. The correct order is 7:1.

Option C, "1:40," is incorrect because it incorrectly represents the ratio as 1:40 instead of 7:1.

Option D, "40:1," is incorrect because it reverses the order of the ratio. The correct order is 7:1.

In summary, the ratio of 2.8 meters to 40 centimeters is 7:1, indicating that for every 7 units of 2.8 meters, there is 1 unit of 40 centimeters.



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