



Bilal can finish a work in 10 days. Jalal is twice as efficient as Bilal. If they work together, how many days will the work be finished?

**Bilal can finish a work in 10 days.**  
**Jalal is twice as efficient as Bilal. If they work together, how many days will the work be finished?**

- A. 3 days
- B. 6 days
- C. 7 days
- D. None of these

Show Answer...

**Correct Answer: A. (3 days)**

**Explanation:**

Let's find out how much work Bilal and Jalal can do in one day individually.

Bilal can finish the work in 10 days, so his work rate per day is  $1/10$  (representing the fraction of work he completes each day).

Jalal is twice as efficient as Bilal, so his work rate per day is  $2 * (1/10) = 1/5$  (twice Bilal's work rate).

Now, let's calculate their combined work rate when they work together:

Combined work rate = Bilal's work rate + Jalal's work rate

Combined work rate =  $1/10 + 1/5$

Combined work rate =  $1/10 + 2/10$

Combined work rate =  $3/10$

To find out how many days it would take them to finish the work together, we divide 1 (the total work) by their combined work rate:

Time taken together =  $1 / \text{Combined work rate}$

Time taken together =  $1 / (3/10)$



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$$\text{Time taken together} = 1 * (10/3)$$

$$\text{Time taken together} = 10/3$$

Now, we convert this improper fraction to a mixed fraction:

$$\text{Time taken together} = 3 \frac{1}{3} = 3.33 \text{ days}$$

Since we cannot have a fraction of a day, we round it up to the nearest whole day. So, the work will be finished in 3 days.

Therefore, the correct answer is B (3 days).