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**A and B work together to complete a task in 6 days. If A can finish the task alone in 9 days, how many days would B take to complete the task alone?**

- A. 20 days
- B. 18 days
- C. 24 days
- D. 28 days

Show Answer...

**Correct Answer: B (18 days)**

**Explanation:**

When A and B work together, they finish a task in 6 days. That means they combine their efforts to get the job done faster. But we want to know how long it would take B to finish the task alone.

Here's how we can figure it out:

Step 1: Find A's work rate per day. Since A takes 9 days to finish the task alone, A's work rate is 1 task / 9 days.

Step 2: Find A and B's combined work rate per day. Since they finish the task together in 6 days, their combined work rate is 1 task / 6 days.

Step 3: Find B's work rate per day. To do that, we subtract A's work rate from the combined work rate. B's work rate = (A and B's combined work rate) - (A's work rate).

Step 4: Calculate the number of days B would take to finish the task alone. To do



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Now, let's do the calculations:

A's work rate per day = 1 task / 9 days =  $1/9$

A and B's combined work rate per day = 1 task / 6 days =  $1/6$

B's work rate per day =  $(1/6) - (1/9) = (3/18) - (2/18) = 1/18$

Time taken by B alone =  $1 / (1/18) = 18$  days

So, the correct answer is B. (18 days).

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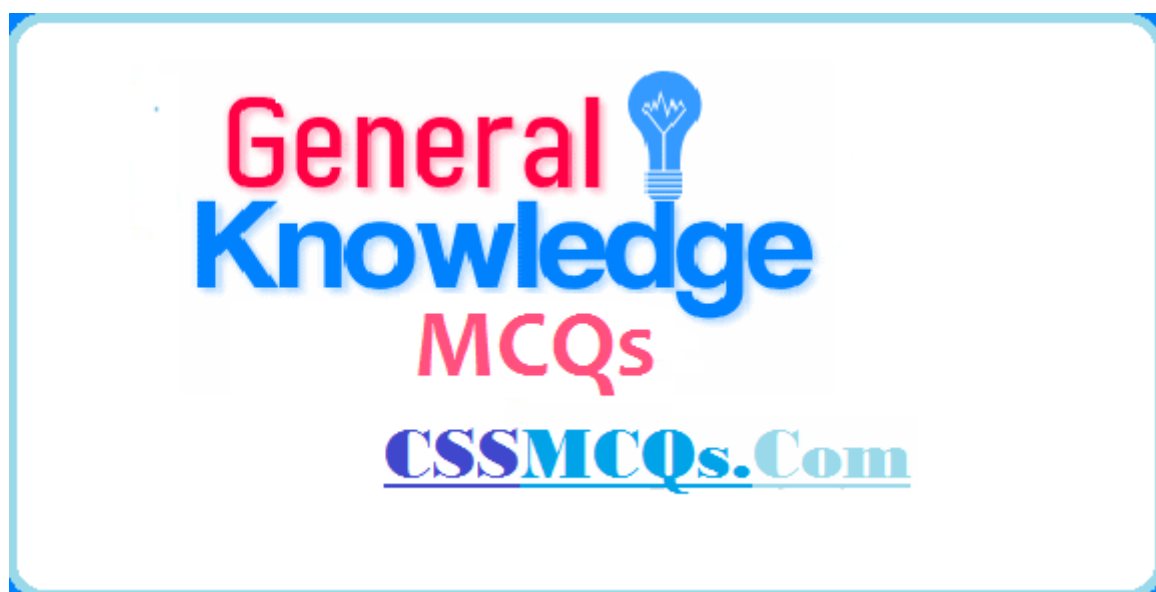
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