

**Free Example**

**of**

**Don't Solve**

**from**



## **Question**

The maximum possible marks in an exam are 250. A got 210 and B got 10% less than C and 25% more than D. The marks of C are 90% of that of A. What is the percentage mark of B?

- a. 92%
- b. 45%
- c. 53%
- d. 68%
- e. 85%

See Next page for **Usual Method**

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### **The Usual Method**

Marks of A = 210 (given)

$$\text{Marks of C} = 90\% \text{ of A} = \frac{210 \times 90}{100} = 189$$

$$\text{Marks of B} = 10\% \text{ less than C} = 189 - 18.9 = 170.1$$

$$\text{Hence \% marks of B} = \frac{170.1 \times 100}{250} \approx 68\%$$

**(Ans: d)**

*Estimated Time to arrive at the answer = 45 seconds.*

See Next page for **Smart Technique**

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### **Using Technique**

$$\% \text{ marks of A} = \frac{210 \times 100}{250} = 84\% .$$

From the data, marks of C > B, also marks of A > C, hence marks of A > B. This eliminates options 'a' and 'e'. Also the difference between marks of A and C is 10% and that between B and C is also 10%. Thus % marks B  $\approx 84 - 10 - 10 = 64\%$ . Thus the answer has to be close to 64%. The closest to it is options 'd' = 68%.

**(Ans: d)**

*Estimated Time to arrive at the answer = 15 seconds.*

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