

**Free Example**

**of**

**Don't Solve**

**from**



### **Question**

10 years ago R was thrice as old as S was, but 10 years hence, he will be twice as old.  
What is R's present age?

- a. 30 years
- b. 50 years
- c. 60 years
- d. 70 years
- e. 80 years

See Next page for **Usual Method**

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## **The Usual Method**

Let the present age of R be ' $r$ ' years.

Hence, R's age 10 years ago =  $(r - 10)$  years

Let the present age of S be ' $s$ ' years.

Hence, S's age 10 years ago =  $(s - 10)$  years

$$\therefore (r - 10) = 3(s - 10) \quad \dots \text{Eq. 1.}$$

Similarly R's age 10 years hence =  $(r + 10)$

And S's age 10 years hence =  $(s + 10)$

$$\therefore (r + 10) = 2(s + 10) \quad \dots \text{Eq. 2.}$$

From equations 1 and 2 we get:

$$r - 10 = 3s - 30 \quad \text{and} \quad r + 10 = 2s + 20$$

$$r - 3s = -20 \quad \text{and} \quad r - 2s = 10$$

Solving simultaneously, we get:

$$s = 30 \text{ and } r = 70$$

Hence, R's present age = 70 years.

**(Ans: d)**

*Estimated Time to arrive at the answer = 60 seconds.*

See Next page for **Smart Technique**

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- a. 30 years
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## **Using Technique**

We know that R's age 10 years ago is three times S's age.

i.e.  $(r - 10) = 3(s - 10)$  where 'r' and 's' are present ages of R and S respectively.

Hence,  $(r - 10) = \text{multiple of 3}$ .

From the options, subtract 10 to get the age of R 10 years ago and see which amongst these is a multiple of 3.

- a.  $30 \Rightarrow 30 - 10 = 20$  (Not a multiple of 3)
- b.  $50 \Rightarrow 50 - 10 = 40$  (Not a multiple of 3)
- c.  $60 \Rightarrow 60 - 10 = 50$  (Not a multiple of 3)
- d.  $70 \Rightarrow 70 - 10 = 60$  (is a multiple of 3)
- e.  $80 \Rightarrow 80 - 10 = 70$  (Not a multiple of 3)

Since, only option 'd' satisfies the conditions, 70 years is the present age of R.

**(Ans: d)**

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

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