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**8. The ratio between the present ages of A and B is 3 : 5 respectively. If the difference between B's present age and A's after 7 year is 3 what is the total of A's and B's present age?**

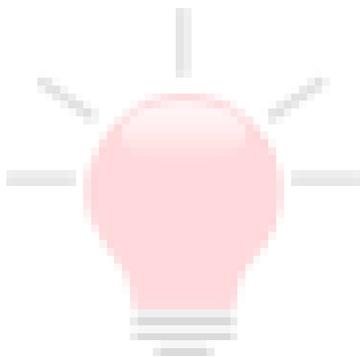
- A. 10 years                      B. 30 years                      C. 40 years  
D. 45 years                      E. None of these

**9. The ratio between the present ages of A and B is 8 : 9. If B is 5 years old than A, what will be the ratio of the ages of A and B after 5 years.**

- A. 1 : 3                      B. 2 : 3                      C. 9 : 10  
D. 10 : 13                      E. None of these

**10. Mohit is younger than Sohith by 4 years. If their ages are in the respective ratio of 3 : 5, How old is Mohit?**

- A. 6 years                      B. 12 years                      C. 13 years  
D. 16 years                      E. None of these



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**Correct Answers:**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
A	D	B	C	D	C	B	C	C	A

**Explanations:**

**1.** Let the present age of three colleague's are :  $3x$ ,  $5x$  and  $7x$

$$(3x - 4) + (5x - 4) + (7x - 4) = 48.$$

$$15x - 12 = 48 \Rightarrow 15x = 60 \Rightarrow x = 4.$$

Their present ages are 12 years, 20 years and 28 years respectively.

Hence, option A is correct.

**2.** Let the present ages of Mother and daughter be  $9x$  and  $5x$  respectively.

$$9x \times 5x = 1125 \Rightarrow 45x^2 = 1125 \Rightarrow x^2 = 25 \Rightarrow x = 5.$$

$$\text{Required ratio} = (9x + 5) : (5x + 5) \Rightarrow 50 : 30 \Rightarrow 5 : 3.$$

Hence, option D is correct.

**3.** Let the present ages of the two Friends be  $2x$  and  $3x$  respectively.

$$\text{Then, } \frac{2x - 6}{3x - 6} = \frac{1}{3}$$

$$\Rightarrow 6x - 18 = 3x - 6 \Rightarrow 3x = 12 \Rightarrow x = 4.$$

$$\text{So, required ratio} = (2x + 4) : (3x + 4) \Rightarrow 12 : 16 \Rightarrow 3 : 4.$$

Hence, option B is correct.

**4.** Let the ages of Ankit, Narendra and Satendra 5 years ago be  $2x$ ,  $3x$  and  $4x$  years respectively.

So, total of their present ages will be,

$$(2x + 5) + (3x + 5) + (4x + 5) = 96$$

$$9x + 15 = 96$$

$$9x = 81$$

$$x = 9.$$

So, the present age of Satendra =  $4x + 5 = 4 \times 9 + 5 = 41$  years.

Hence, option C is correct.

**5.** Let the age of Omkar and Nitin five years ago  $8x$  and  $7x$  respectively.

$$\text{Omkar's present age} = (8x + 5)$$

$$\text{Nitin's present age} = (7x + 5)$$

Now, as per the equ.

$$\text{Then, } \frac{(8x + 5) + 3}{(7x + 5) + 3} = \frac{12}{11} \Rightarrow \frac{(8x + 8)}{(7x + 8)} = \frac{12}{11}$$

On cross multiplication, we get

$$\Rightarrow 88x + 88 = 84x + 96$$

$$\Rightarrow 4x = 8 \Rightarrow x = 2.$$

$$\therefore \text{Nitin's present age} = (7x + 5) = (7 \times 2 + 5) = 19 \text{ years.}$$

Hence, option D is correct.

**6.** Let the present ages of A and B be  $6x$  and  $7x$  years respectively.

$$\text{Then, } \frac{6x + 8}{7x + 8} = \frac{7}{8}$$

$$\Rightarrow 48x + 64 = 49x + 56 \Rightarrow x = 8$$

$$\text{So, A's present age} = 6x \Rightarrow 6 \times 8 = 48 \text{ years.}$$

Hence, option C is correct.

**7.** Let the present age of Rahul and Nirdosh be  $2x$  and  $x$  years respectively.

$$\text{Then, } 2x + 7 = 21 \Leftrightarrow x = 7.$$

Nirdosh's age is 7.

Hence, option B is correct.

**8.** Let the present ages of A and B be  $3x$  and  $5x$  years respectively.

$$\text{Then, } 5x - (3x + 7) = 3 \Rightarrow 2x = 10. \Rightarrow x = 5.$$

$$\text{So, Required Sum} = 3x + 5x = 8x = 8 \times 5 = 40 \text{ years.}$$

Hence, option C is correct.

**9.** Let A's age and B's age be  $8x$  year and  $9x$  year respectively

$$\text{then, } 9x - 8x = 5 \Leftrightarrow x = 5.$$

$$\text{So, Required ratio} = (8x + 5) : (9x + 5) \Rightarrow 45 : 50 \Rightarrow 9 : 10.$$

Hence, option C is correct.

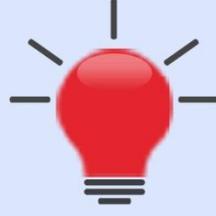
**10.** Let Sohith's age be  $x$  years. then, Mohit's age =  $(x - 4)$  years.

$$\text{So, } \frac{x-4}{x} = \frac{3}{5} \Rightarrow 5x - 20 = 3x$$

$$\Rightarrow 2x = 20 \Rightarrow x = 10$$

$$\text{Hence, Mohit's age} = (x - 4) = 6 \text{ years.}$$

Hence, option A is correct.



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