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The Question Bank

Problems on ages Questions for SBI PO Pre, IBPS PO Pre, RRB Scale I Pre, RBI Assistant, SBI Clerk Mains, IBPS Clerk Mains & LIC AAO Exams.

Problems on Ages Quiz 5

Direction: Read the following questions carefully and choose the right answer.

1. Present average of age of A and B is $6x - 15$ years. Present average age of A, B and C is $4x + 6$ years. If present age of B is 25% less than the present age of C and 20% more than the present age of A, then find the present age of A.

A. 30 years B. 33 years C. 36 years D. 39 years E. Can't be determined
2. The age of Arjun is $(x + 5)$ years. The ratio of the age of Arjun 2 years hence to the age of Draupadi 1 year before is 6 : 5 respectively. If Arjun is 4 years older than Draupadi, then find the age of Shubhadra whose age is 4 years less than the average age of Arjun and Draupadi taken together.

A. 30 years B. 36 years C. 34 years D. 32 years E. None of these
3. Arun and Meena recently celebrated their golden anniversary and their daughter Seema's birthday. If the age of Seema 18 years after her parents' marriage and her age at their golden anniversary is in the ratio 5 : 21, how many years after the marriage was Seema born?

A. 8 years B. 15 years C. 12 years D. 10 years E. None of these
4. Seven years later from now A will be as old as B was 4 years ago. C was born 2 years ago. The average age of A, B and C 10 years later will be 33yrs. What is the present age of A?

A. 30 years B. 28 years C. 31 years D. 29 years E. None of these
5. P's age 8 years ago is equal to the sum of the present ages of his son and his daughter. 5 years hence, the ratio between his daughter's age and his son's age will be 7 : 6 respectively. P's wife is 7 years elder than him. His wife's present age is thrice the present age of his son. What is his daughter's present age?

A. 18 years B. 20 years C. 23 years D. 28 years E. None of these

6. The present average age of a group of 60 athletes is 50% more than the average age of the 60 athletes 5 years ago. The average age of the group will become Y, if two new athletes of 22 year and 38 years join the group. Find the value of Y.

- A. 14.44 B. 17.54 C. 15.48 D. 16 E. None of these

7. The ratio between the present ages of Amon and Chan is 3 : 4. The ratio of Bevan's age after 5 years to Chan's age 1 year ago is 4 : 3 and four times the difference in ages of Chan and Amon is one more than the age of Bevan. Find the average of the present ages of Amon and Chan.

- A. 20 years B. 10 years C. 14 years D. 15 years E. None of these

8. Present age of son and mother are in ratio 3 : 8. Four years ago ratio of daughters age to Mothers age was 1 : 9. When the son was born the ratio of age of mother and father was 5:6. If the present age of daughter is 8 years, find the average age of family just before the daughter is born.

- A. 28 years B. 30 years C. 25.33 years D. 27.67 years E. 22.33 years

9. 10 years ago, Elephant was five times older than Giraffe . Five years from now, the age of Elephant will be twice the age of the Giraffe. What was the ratio of the age of Elephant and Giraffe five years ago?

- A. 5 : 1 B. 3 : 1 C. 1 : 4 D. 2 : 5 E. 3 : 7

10. Gautam's present age is equal to 20% of his father's age 15 years ago and Gaurav's present age(brother of Gautam), is 60% of his father's age ten years ago. If the sum of Gautam's present age and Gaurav's present age is 31, then find their fathers present age?

- A. 45 years B. 50 years C. 35 years D. 40 years E. None of these

CORRECT ANSWERS:

1	2	3	4	5	6	7	8	9	10
A	C	A	B	C	C	C	C	B	B

Explanations:

1. Sum of the present age of A and B = $2 \times (6x - 15) = 12x - 30$ years

Sum of the present age of A, B and C = $3 \times (4x + 6) = 12x + 18$ years

So, the present age of C = $12x + 18 - 12x + 30 = 48$ years

Present age of B = $48 \times 0.75 = 36$ years

Present age of A = $\frac{36}{1.2} = 30$ years

Hence, option A is correct.

2. Age of Arjun = $(x + 5)$

Since Arjun is 4 years older than Draupadi, so Age of Draupadi = $(x + 1)$

According to question,

$$\frac{(x + 5) + 2}{(x + 1) - 1} = \frac{6}{5}$$

$$5x + 35 = 6x$$

$$x = 35$$

So, age of Arjun and Draupadi is $(35 + 5) = 40$ years and $(35 + 1) = 36$ years respectively

$$\text{Average age of Arjun and Draupadi} = \frac{40 + 36}{2} = 38 \text{ years}$$

Therefore, age of Shubhadra = $(38 - 4) = 34$ years

Hence, option C is correct.

3. Let the age of Seema at their silver anniversary = K yrs

18 yrs of marriage = 7 yrs before silver anniversary

Age of Seema 7 yrs before silver anniversary = $K - 7$

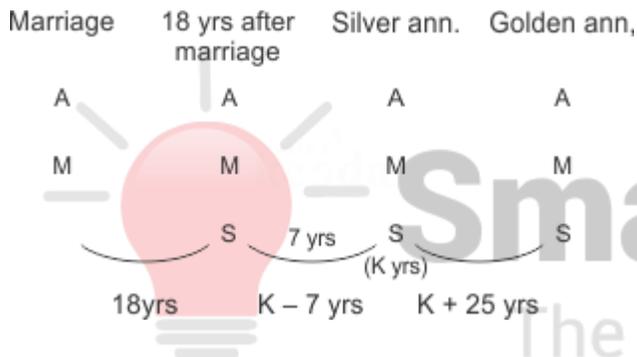
Seema's age 25 yrs after silver anniversary (golden anniversary) = $K + 25$

$$\frac{K - 7}{K + 25} = \frac{5}{21}$$

$$K = 17 \text{ yrs}$$

Seema's age on silver anniversary = 17 yrs

She is born $25 - 17$ yrs = 8 yrs after the marriage.



Hence, option A is correct.

Alternate Solution:-

Let the age of Seema 18 years after her parents marriage be $5k$ years

So age of Seema at golden anniversary of her parents = $(5k + 32)$ years

From the question,

$$5k / (5k + 32) = 5 / 21$$

or, $k = 2$

So Seema's age was 10, when her parents had completed 18 years of marriage.

So Seema was born 8 years after her parents marriage.

Hence, option A is correct.

4. Let age of A 7 years later be k so age of B 4 years ago was k

C was born 2 years ago so age of C 10 yrs later will be 12 years

	4 years ago	Present	7 years later	10 years later
A	$k - 11$	$k - 7$	k	$K + 3$
B	k	$K + 4$	$K + 11$	$K + 14$
C		2	9	12

Average age of all three 10 yrs later = 33

$$\frac{K + 3 + k + 14 + 12}{3} = 33$$

$$2k + 29 = 99 \rightarrow 2k = 70 \rightarrow k = 35$$

Present age of A = $k - 7 = 35 - 7 = 28$ years

Hence, option B is correct.

5. Let 5 years hence the age of daughter and son be $7x$ years and $6x$ years respectively, then

Present age of daughter = $(7x - 5)$ years

Present age of son = $(6x - 5)$ years

$$\Rightarrow \text{Present age of P} = [(7x - 5) + (6x - 5) + 8] = (13x - 2) \text{ years}$$

$$\therefore \text{Present age of P's wife} = [(13x - 2) + 7] = (13x + 5) \text{ years}$$

Given, present age of P's wife is thrice the present age of his son.

$$(13x + 5) = 3(6x - 5)$$

$$\Rightarrow x = 4$$

Hence, his daughter's present age = $(7x - 5) = 23$ years.

Hence, option C is correct.

6. Let, the present average age of the group = X

Then according to the question,

$$\Rightarrow \frac{150}{100}(X - 5) = X$$

$$\Rightarrow X = 15$$

$$\text{The required average 'Y'} = \frac{15 \times 60 + 22 + 38}{62} = 15.48$$

Hence, option C is correct.

7. Let Amon's age = A, Bevan's age = B, and Chan's age = C

Then, according to the question,

$$\Rightarrow \frac{A}{C} = \frac{3}{4} \dots\dots\dots(i)$$

$$\Rightarrow \frac{B + 5}{C - 1} = \frac{4}{3} \dots\dots\dots(ii)$$

$$\Rightarrow 4 \times (C - A) = B + 1 \dots\dots\dots(iii)$$

After solving these equations,

$$\Rightarrow A = 12$$

$$\Rightarrow C = 16$$

$$\text{Average of ages of Amon and Chan} = \frac{12 + 16}{2} = 14$$

Hence, option C is correct.



8. Present age of daughter = 8 years

Age of Mother and Daughter 4 years back = 36 and 4 respectively

Present age of Mother = 40 years

Present age of Son = 15 years

Age of Father and Mother when son was born(15 years back) = 30 and 25 respectively.

Therefore, present age of father = 45 years

Age of family 8 years ago

Daughter = 0

Son = 7

Mother = 32

Father = 37

$$\text{Average age} = \frac{7 + 32 + 37}{3} = 25.33 \text{ years}$$

Hence, option C is correct.

9. Elephant was 5 times older than Giraffe 10 years ago.

Let the age of Giraffe 10 years ago be x years.

\therefore The age of Elephant 10 years ago = $5x$ years

5 years from now, Elephant will be twice older than Giraffe.

\therefore We can write now,

$$(5x + 10 + 5) = 2 \times (x + 10 + 5)$$

$$\Rightarrow 5x + 15 = 2x + 30$$

$$\Rightarrow 3x = 15$$

$$\Rightarrow x = 5$$

\therefore Age of Giraffe 10 years ago = 5 years

And, the age of Elephant 10 years ago = $5x = 5 \times 5 = 25$ years

$$\therefore \text{The reqd. ratio} = \frac{25 + 5}{5 + 5} = \frac{30}{10} = 3 : 1$$

Hence, option B is correct.

10. Let the father's present age be X years

Father's age 15 years ago = $(X - 15)$ years

Gautam's present age = 20% of $(X - 15)$

$$\Rightarrow \frac{(X - 15)}{5} \text{ years}$$

Gaurav's present = 60% of $(X - 10)$

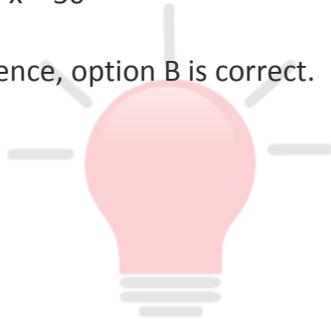
$$\Rightarrow \frac{3(X - 10)}{5} \text{ years}$$

$$\frac{X - 15}{5} + \frac{3(X - 10)}{5} = 31$$

$$\Rightarrow x - 15 + 3x - 30 = 155$$

$$\Rightarrow x = 50$$

Hence, option B is correct.



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