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Problem on Ages Questions for IBPS RRB SCALE- I Pre & RRB Office Asst. Pre Exams – Problem on Ages Quiz at Smartkeeda.

Problem on Ages Quiz 6

Directions: Kindly study the following Questions carefully and choose the right answer:

1. 4 years later A will be as old as B was 6 years ago. If the ratio of present age of A and B is 4 : 5, then what is the present average age of A and B?

A. 46 years B. 42.5 years C. 50 years D. 47.5 years E. 45 years

2. If the ratio of ages of Aniket and Ruchi 5 years ago was 5 : 8 respectively and after 8 years sum of their ages will be 52 years, then what was Ruchi's age 3 years ago?

A. 16 years B. 21 years C. 15 years D. 18 years E. 13 years

3. 5 years before, age of X is 10 years less than 1.20 times of his present age, the ratio of age of X after 3 years to the age of Y before 4 years is 7:8, Find the present age of Y?

A. 36 years B. 32 years C. 34 years D. 30 years E. 40 years

4. The average age of Aman and Seema at the time of their wedding was 26 years and recently they celebrated their silver wedding anniversary. If the present age of their daughter is 22 years, what was their average age when she was born?

A. 28.5 B. 30 C. 29 D. 31 E. 28

5. Age of B is 43.75% more than A. Ratio of their ages after five years will be 4 : 3. Find the age of C who is three years younger than B.

A. 20 years B. 24 years C. 16 years D. 26 years E. 28 years

6. 6 years from now A will be as old as B was 4 years ago. C is 4 years elder to B and the present average age of A and C is 37 years. What is the present average age of A, B and C?

A. 38 years B. 37.5 years C. 40 years D. 36.5 years E. 38.4 years

7. Ratio of present age of mother to son is 9 : 2. After 8 years, father will be 212.5% more age than the age of son. If at present father is six years older than the mother, find the present age of son.

A. 6 years B. 10 years C. 9 years D. 8 years E. 12 years

8. The ratio of present age of Aman and Shubham is 7 : 9 respectively, and the ratio of age of Aman 5 years ago and that of Shivani 2 years hence is 2 : 3. If Shivani is 5 years yonger than Shubham, find the present average age of Shubham and Shivani.

A. 24.5 years B. 32 years C. 27.5 years D. 24 years E. None of these

9. The sum of the present ages of Abhishek and Amitabh is 60 years. The ratio of the ages of Abhishek to Amitabh, 5 years hence will be 4:3. Find the present age of Amitabh.

A. 25 years B. 15 years C. 45 years D. 35 years E. 20 years

10. B is six years older than A, and the ratio of present age of B to C is 9 : 4. Find the average age of the three persons if ratio of present age of A to C is 15 : 8.

A. 24 years 7 months B. 26 years 3 months C. 27 years 6 months D. 27 years 4 months E. 28 years 11 months

Correct Answers:

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

Explanations:

1.

Let the present age of A = 4k and B = 5k

Age of A 4 yrs later = Age of B 6 years ago

4k + 4 = 5k – 6

k = 10

Present age of A and B = $\frac{9k}{2} = \frac{90}{2} = 45$ years

Hence, option E is correct.

2. Before 5 years,

Let the age of Aniket = 5x years

The age of Ruchi = 8x years

According to the question,

(5x + 13) + (8x + 13) = 52

13x = 52 – 26

13x = 26

x = 2

Ruchi's age 3 years ago = 8 × 2 + 5 – 3 = 18 years

Hence, option D is correct.

3. According to the question,

$X - 5 = 1.20 \times X - 10$

$0.20 \times X = 5$

$X = \frac{5}{0.20}$

X = 25 years

X's age after 3 years = 25 + 3 = 28 years

Y's age before 4 years ago = $\frac{28}{7} \times 8 = 32$ years

Present age of Y = 32 + 4 = 36 years

Hence, option A is correct.

4. Average age at the time of their wedding = 26

Average age at silver anniversary = 26 + 25 = 51 years

Present age of daughter = 22 years

So, average age at her birth = 51 – 22 = 29 years

Hence, option C is correct .

5. Let the age of A be 'a' years, then age of B

$= (1 + \frac{43.75}{100})\ a = (1 + \frac{7}{16})a = \frac{23}{16}a$ years

Ratio after five years = $\frac{(a + 5)}{\{(23/16)\ a + 5\}} = \frac{3}{4}$

a = 16

B's age = $a + \frac{7}{16}a = 23$ years

C's age = 23 – 3 = 20 years

Hence, option A is correct.

6. Let the age of A six years from now = k = age of B 4 years ago

Present age of A = k – 6 and B = k + 4

Present age of C = k + 4 + 4 = k + 8

Present average age of A and C

$= \frac{(k - 6 + k + 8)}{2} = 37$

k = 36

Present average age of all three

$= \frac{(k - 6 + k + 4 + k + 8)}{3} = \frac{(3k + 6)}{3}$

= k + 2

= 36 + 2 = 38 years

Hence, option A is correct.

7. Let the age of mother and son be 9y and 2y years respectively.

Age of son after 8 years = 2y + 8 years

Age of father after 8 years = 212.5% of (2y + 8) + (2y + 8) = 6.25(y + 4)

Present age of father = 6.25(y + 4) – 8 = 6.25y + 25 – 8 = 6.25y + 17

we have,

(6.25y + 17) – 9y = 6

y = 4

Age of son = 2y = 8 years

Hence, option D is correct.

8. Let the present age of Aman = 7x years

Present age of Shubham = 9x years

Present age of Shivani = 9x – 5 years

According to the question,

(7x – 5) : (9x – 5 + 2) = 2 : 3

3 × (7x – 5) = 2 × (9x – 3)

21x – 15 = 18x – 6

3x = 9

x = 3

Present age of Shubham = 3 × 9 = 27 years

Present age of Shivani = 9 × 3 – 5 = 22 years

Reqd. average = $\frac{27 + 22}{2}$ = 24.5 years

Hence, option A is correct.

9. Let the present age of Abhishek be x years.

Present age of Amitabh = (60 – x) years

According to the question,

$\frac{x + 5}{60 – x + 5} = \frac{4}{3}$

3x + 15 = 260 – 4x

7x = 245

x = $\frac{145}{7}$ = 35

Present age of Amitabh = 60 – 35 = 25 years

Hence, option A is correct.

10. Let the age of A be 15a years and that of C be 8a years. Then, age of B must be 15a + 6 years.

Now, we have

$$\frac{15a + 6}{8a} = \frac{9}{4}$$

We get a = 2

Average age of the three

$$= \frac{30 + 36 + 16}{3} = 27 \text{ years } 4 \text{ months}$$

Hence, option D is correct.