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Problem on Ages Questions for RBI Asst. Pre, IBPS Clerk Pre and IBPS RRB Office Asst. Pre Exams

Problem on Ages Quiz 7

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

- 4 years ago age of Nitin is 4 years more than the present age of Priya. If ratio between age of Priya 2 years hence and the age of Nitin 6 years hence will be 8:11, then find the present age of Priya?
A. 35 years B. 30 years C. 38 years D. 40 years E. 34 years
- 5 years ago, age of Virat was 1.2 times that of Anushka and the difference between their ages after 3 years will be 5 years. Find the sum of their ages after 2 years?
A. 69 years B. 70 years C. 73 years D. 71 years E. 72 years
- Present average age of Pankaj and Dheeraj is 35 years and the ratio of the present age of Dheeraj and Ankit is 10 : 11. If 5 years ago, the ratio of age of Pankaj and Dheeraj was 5 : 7, then find Ankit's present age?
A. 44 years B. 40 years C. 30 years D. 35 years E. 25 years
- Present age of Rakesh is 25% of the present age of Danny and ratio of present age Danny to Monu is 8 : 9. If the average of present age of all three is $\frac{95}{3}$ years, then find the sum of Rakesh's and Monu's age 5 years later?
A. 62 years B. 60 years C. 61 years D. 63 years E. 65 years

5. The age of Rani, Sonia and Tanvi is X , $X - 3$ and $X + 3$ respectively. The ratio of age of Sonia and Rani is $6 : 7$. Find the ratio of age of Rani and Tanvi?
- A. $9 : 8$ B. $7 : 4$ C. $7 : 8$ D. $7 : 6$ E. $5 : 4$
6. Babita's present age is 20% less than Anu's present age. If the difference between their present age is 6 years, find the age of Babita after 5 years?
- A. 21 years B. 24 years C. 27 years D. 25 years E. 29 years
7. The present age of Pankaj is 10 years less than Amit's age 5 years hence. The ratio of their ages 10 years hence will be $7 : 8$. Find the present age Pankaj.
- A. 30 years B. 25 years C. 34 years D. 28 years E. 24 years
8. Anjali is 8 years younger than Dhruv and ratio of present age of Dhruv and Tania is $1 : 3$. If the ratio of present age of Anjali and Tania is $1 : 7$, then find the present age of Dhruv?
- A. 21 years B. 14 years C. 16 years D. 20 years E. 24 years
9. Ratio of present age of Anjali, Sonia and Taniya is $2 : 5 : 7$ respectively. After 5 years, the ratio of age of Sonia to age of Anjali is $15 : 7$. Find the sum of age of Sonia and Taniya, after 6 years from the present age?
- A. 108 years B. 110 years C. 112 years D. 120 years E. 115 years
10. The sum of the ages of Reena and Sonia is 60 years. Sonia is 16 years younger than Reena and the age of Ankit is 1.5 times the age of Reena. Find the sum of the age of Reena, Sonia and Ankit?
- A. 112 years B. 115 years C. 117 years D. 121 years E. 110 years



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Correct Answers:

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

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Explanation:

1. Let Priya's present age = a years
Nitin's present age = $a + 4 + 4 = (a + 8)$ years
2 years hence, age of Priya = $a + 2$
- 6 years hence, age of Nitin = $(a + 8) + 6 = a + 14$
Ratio given = $8 : 11$
 $\therefore (a + 2) : (a + 14) = 8 : 11$
 $\Rightarrow 11a + 22 = 8a + 8 \times 14$
 $\Rightarrow 3a = 112 - 22 = 90$
 $\Rightarrow a = 30$ years
Hence, Priya's present age is 30 years.

Hence, option B is correct.

2. 5 years ago, ratio of age of Virat and Anushka = $6 : 5$
Difference between their ages will remain same always.
So, 1 is corresponding to 5.
Virat's age 5 years ago = $6 \times 5 = 30$ years
Anushka's age 5 years ago = $5 \times 5 = 25$ years
Present age of Virat = 35 years
Present age of Anushka = 30 years
Sum of their age after 2 years = $35 + 2 + 30 + 2 = 69$ years.

Hence, option A is correct.

3. Let the present age of Pankaj, Dheeraj and Ankit be P , D and A respectively

ATQ,

$$P + D = 70 \dots(i)$$

$$\frac{D}{A} = 10 : 11$$

$$\frac{\{P - 5\}}{\{D - 5\}} = 5 : 7$$

$$7P - 5D = 10 \dots(ii)$$

Solving (i) and (ii), we get

$$D = 40 \text{ years}$$

$$\frac{D}{A} = 10 : 11$$

$$\frac{40}{A} = \frac{10}{11}$$

$$A = 44 \text{ years}$$

Hence, option A is correct.

4. ATQ,

$$D = 8a, M = 9a$$

$$R = 8a \times \frac{1}{4} = 2a$$

$$R + M + D = 2a + 9a + 8a = 19a$$

$$19a = 95$$

$$a = 5$$

$$R + M + 10 = 2a + 9a + 10$$

$$\Rightarrow 11a + 10 = 55 + 10 = 65 \text{ years}$$

Hence, option E is correct.

5. ATQ,

$$\frac{X-3}{X} = \frac{6}{7}$$

$$\Rightarrow X = 21$$

$$\frac{R}{T} = \frac{X}{X+3}$$

$$= \frac{21}{24} = 7 : 8$$

Hence, option C is correct.

6. Let Anu's present age be $100x$

Babita's present age = $80x$

Difference between their ages = $100x - 80x = 20x$

$$20x = 6$$

$$x = \frac{3}{10}$$

$$\text{Babita's present age} = \frac{80 \times 3}{10} = 24$$

Babita's age after 5 years = $24 + 5 = 29$ years

Hence, option E is correct.

7. Let, the present age of pankaj be P and that of Arun be A

$$(P + 10) : (A + 10) = 7 : 8$$

$$8P + 80 = 7A + 70 \quad \dots(2)$$

$$(A + 5) - P = 10$$

$$A - P = 5 \quad \dots(1)$$

Multiply (1) by 8

$$8A - 8P = 40 \quad \dots(3)$$

Solving (2) and (3), we get

$$A = 30$$

From (1), The age of Pankaj = $A - 5$

$$\text{Pankaj} = 30 - 5 = 25 \text{ years}$$

Hence, option B is correct.

8. According to the question,

$$\text{Tania : Dhruv} = 3 : 1$$

$$\text{Tania : Anjali} = 7 : 1$$

Multiply 1st ratio by 7 and 2nd ratio by 3 to get the ratio of all three

$$\text{Tania : Dhruv : Anjali} = 21 : 7 : 3$$

Anjali is 8 years younger than Dhruv,

$$7 - 3 = 4$$

4 corresponds to 8

Dhruv's corresponding ratio i.e., 7

$$7 \text{ will correspond to } = \frac{8 \times 7}{4} = 14 \text{ years}$$

Hence, option B is correct.

9. Given that,

$$A : S : T = 2 : 5 : 7$$

Let the age of Anjali, Sonia and Taniya are $2A$, $5A$ and $7A$ respectively.

After 5 years,

$$\frac{5A + 5}{2A + 5} = \frac{15}{7}$$

$$35A + 35 = 30A + 75$$

$$5A = 40$$

$$A = 8$$

$$\text{Sonia's age} = 5A = 40$$

$$\text{Taniya's age} = 7A = 56$$

6 years hence,

$$S + T = 40 + 56 + 12 = 108 \text{ years}$$

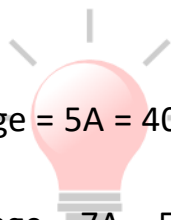
Hence, option A is correct.

10. Let the denote the present age of Reena, Sonia and Ankit by R , S and A respectively.

$$R + S = 60$$

$$R - S = 16$$

$$2R = 76$$



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R = 38 years

S = 22 years

A = R (1.5) = $38 \times 1.5 = 57$ years

Sum = $38 + 22 + 57 = 117$ years

Hence, option C is correct.



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