

Sample Questions on Problems on Ages - Quantitative Aptitude

Q 1. What is Ram's present age, if after 8 years his age will be 10 times his age 10 years back?

1. 11 years
2. 21 years
3. 12 years
4. 32 years
5. 14 years

Answer: (3) 12 years

Solution:

Let the present age of Ram be x years

After 8 years, Ram's age = $(x+8)$ years

His age 10 years back = $(x-10)$ years

Then, according to the question,

$$x + 8 = 10(x-10)$$

$$\Rightarrow x + 8 = 10x - 100$$

$$\Rightarrow 108 = 9x$$

$$\Rightarrow x = 12$$

Q 2. The present age of Kabir is 50 years and that of his wife, Sarah is 40 years. How long ago was the ratio of their ages 3:2?

1. 20 years
2. 21 years
3. 15 years
4. 30 years
5. 22 years

Answer: (1) 20 years

Solution:

Let the number of years when the ratio of their ages was 3:2 be x

So,

$$(50-x) / (40-x) = 3 / 2$$

$$\Rightarrow 100 - 2x = 120 - 3x$$

$$\Rightarrow x = 20$$

Q 3. The sum of ages of 5 children born in a family at the intervals of 4 years each is 50 years. What is the age of the eldest child?

1. 15 years
2. 16 years
3. 30 years
4. 32 years
5. 20 years

Answer: (5) 20 years

Solution:

Let the age of the youngest child be x and because all the children are born at an interval of 4 years, the present age of 5 children be $x, x+4, x+8, x+12$ and $x+16$

According to the question,

$$x + (x+4) + (x+8) + (x+12) + (x+16) = 50$$

$$\Rightarrow 5x + 40 = 50$$

$$\Rightarrow 5x = 10$$

$$\Rightarrow x = 2$$

So age of the 5 children,

$$x = 2$$

$$x+4 = 6$$

$$x+8 = 10$$

$$x+12 = 16$$

$$x+16 = 20$$

Age of eldest child is 20 years

Q 4. The present ratio between the ages of Archana and Diksha is 4 : 3. After 5 years, Archana's age will be 25 years. What is the age of Diksha at present?

1. 12 years
2. 20 years
3. 15 years
4. 22 years
5. 16 years

Answer: (3) 15 years

Solution:

Let the present age of Archana be x

So, after 5 years, Archana's age,

$$\Rightarrow x+5 = 25$$

$$\Rightarrow x = 20$$

So, Archana's present age is 20 years

According to the question,

$$20 / \text{Diksha's age} = 4 / 3$$

$$\Rightarrow \text{Diksha's age} = (20 \times 3) / 4 = 15$$

Q 5. The present ages of three persons, Raj, Rajesh and Ravi is in proportions 4: 7: 9. Eight years ago, the sum of their ages was 56. What is the present age of Ravi?

1. 22 years
2. 43 years
3. 76 years
4. 36 years
5. 44 years

Answer: (4) 36 years

Solution:

Let the present ages of Raj be $4x$, Rajesh be $7x$ and Ravi be $9x$

Eight years ago,

$$\Rightarrow (4x-8) + (7x-8) + (9x-8) = 56$$

$$\Rightarrow 20x - 24 = 56$$

$$\Rightarrow x = 4$$

Present age of Ravi = $9x = 9 \times 4 = 36$ years

Q 6. The present age of Aradhana and Aadrika is in the ratio 3:4. 5 years back, the ratio of their ages was 2:3. What is the present age of Aradhana?

1. 12 years
2. 15 years
3. 20 years
4. 22 years
5. 10 years

Answer: (2) 15 years

Solution:

Let the present age of Aradhana be $3x$

Let the present age of Aadrika be $4x$

5 years back, Aradhana's age = $(3x-5)$ years

5 years back, Aadrika's age = $(4x-5)$

According to the question, $(3x-5) : (4x-5) = 2:3$

$$\Rightarrow (3x-5) \div (4x-5) = 2/3$$

$$\Rightarrow 3(3x-5) = 2(4x-5)$$

$$\Rightarrow 9x-15 = 8x-10$$

$$\Rightarrow x = 5$$

Therefore, Aradhana's current age = $3 \times 5 = 15$ years

Q 7. If the total ages of Iqbal and Shikhar is 12 years more than the total age of Shikhar and Charu. Charu is how many years younger than Iqbal?

1. 11 years
2. 13 years
3. 15 years
4. None of the above
5. Cannot be Determined

Answer: (4) None of the Above

Solution:

Let the age of Iqbal be x

Let the age of Shikhar be y

Let the age of Charu be z

Then, according to question,

$$(x+y) - (y+z) = 12$$

$$\Rightarrow x+y-y-z = 12$$

$$\Rightarrow x-z = 12$$

Thus, Charu is 12 years younger than Iqbal

Q 8. A father is twice as old as his daughter. If 20 years ago, the age of the father was 10 times the age of the daughter, what is the present age of the father?

1. 40 years
2. 32 years
3. 33 years
4. 45 years
5. 22 years

Answer: (4) 45 years

Solution:

Let the present age of the father be $2x$

So, the present age of the daughter = x

According to the question,

$$\Rightarrow 2x - 20 = 10(x - 20)$$

$$\Rightarrow 2x - 20 = 10x - 200$$

$$\Rightarrow 8x = 180$$

$$\Rightarrow x = 22.5$$

Thus, the present age of father = $22.5 \times 2 = 45$ years

Q 9. Arun is 2 years older than Bharat who is twice as old as Charat. If the total of the ages of Arun, Bharat and Charat be 27, then how old is Bharat?

1. 10 years
2. 12 years
3. 15 years
4. 13 years
5. 11 years

Answer: (1) 10 years

Solution:

Let the present age of Charat be x

So, Bharat's present age = $2x$

And Arun's present age = $2 + 2x$

According to the question,

$$x + 2x + 2 + 2x = 27$$

$$\Rightarrow 5x + 2 = 27$$

$$\Rightarrow 5x = 25$$

$$\Rightarrow x = 5$$

So, Bharat's age = $2 \times 5 = 10$ years

Q 10. The sum of the ages of a daughter and mother is 56 years; after four years the age of the mother will be three times that of the daughter. What is the age of the daughter and the mother respectively?

1. 12 years, 41 years
2. 12 years, 30 years
3. 11 years, 34 years
4. 12 years, 44 years
5. 21 years, 42 years

Answer: (4) 12 years, 44 years

Solution:

Let the present age of the mother be x years and the present age of the daughter be y years

According to the question, $x+y = 56$ — (1)

After 4 years, age of the Mother = $x+4$

Age of the daughter after 4 years = $y+4$

So,

$$x+4 = 3(y+4) \text{ — (2)}$$

$$x+4 = 3y + 12$$

From the equation (1) we get, $x = 56-y$

Thus, keep the value of x in equation 2, we get

$$(56-y) + 4 = 3y + 12$$

$$\Rightarrow 60 - y = 3y + 12$$

$$\Rightarrow y = 12$$

So, the daughter's present age is 12 years

Mother's present age = $56-12 = 44$ years