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Problems on Ages Questions for Bank Clerk Pre Exams.

Problems on Ages Quiz 3

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

1. In a family there are two children Navya and Reet. The ratio between the present age of Navya and Reet is 5 : 6. After 8 years the ratio of their ages will be 7 : 8. Find their total age of Navya and Reet after 10 years.

A. 56   B. 66   C. 60   D. 45   E. None of these

2. Monika, Neha and Bharti are three sister. Monika and Neha are twins. The ratio of sum of the ages of Monika and Neha is same as that of Bharti alone. Three years earlier the ratio of age of Monika and Bharti was 5 : 11. What will be the age of Bharti 7 years hence?

A. 20 years   B. 10 years   C. 25 years   D. 30 years   E. None of these

3. The average age of a group of 15 employees is 24 years. If 5 more employees join the group, the average age increases by 2 years. Find the average age of the new employees.

A. 35   B. 30   C. 24   D. 32   E. None of these

4. Five years ago, the age of John was 5 times that of his son. After 5 years, his age will be 3 times that of his son. After how many years, will he be twice as old as his son?

A. 15 years   B. 25 years   C. 30 years   D. 40 years   E. Can't be determined

5. Two years ago, the age of Rajan was 4 times that of his son. After 5 years, the ratio of ages of Rajan to his son will be 5 : 2. What is the present age of his son?

A. 8 years   B. 14 years   C. 7 years   D. 9 years   E. None of these

6. 2 years ago, John's age was 4 times that of his son. After 1 year, his age will be 3 times that of his son. What is the difference between their present ages?

A. 16 years   B. 18 years   C. 24 years   D. 20 years   E. None of these

7. Diksha, Prachi and Deepika are three sister. Diksha and Prachi are twins. The of sum of the ages of Diksha and Prachi is same as that of Deepika alone. Four years earlier the ratio of age of Diksha and Deepika was 3 : 7. What will be the age of Deeepika 4 years hence?

A. 20 years   B. 10 years   C. 8 years   D. 12 years   E. None of these

8. The average age of brother and sister is 26 years. After 4 years the ratio of their ages will be 7 : 8. Find the brother's present age.

A. 28 years   B. 22 years   C. 24 years   D. 26 years   E. 30 years

9. If the ratio between the present age of Meetali and Meennakshi is 7 : 9 and Meennakshi is 4 years older than Meetali. After 4 years what will be the age of Meenakshi?

A. 20 years   B. 25 years   C. 22 years   D. 30 years   E. None of these

10. Meeta is 4 years older than Geeta and Seeta is 6 years younger than Meeta. If the average age of Geeta and Seeta is 24 years find the sum of the age of Seeta, Geeta and Meeta.

A. 77 years   B. 75 years   C. 74 years   D. 79 years   E. None of these
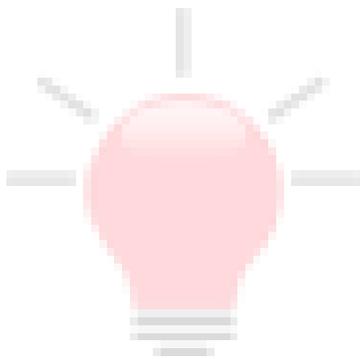
Correct Answers:

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

Explanations:

1. Let the present age of Navya = 5x, Reet = 6x

After 8 years,

5x + 8 : 6x + 8 = 7 : 8

(5x + 8) 8 : (6x + 8) 7

40x + 64 = 42x + 56

64 − 56 = 42x − 40x

8 = 2x

x = 4

Present age of Navya = 20, Reet = 24

After 10 years the total of their ages = 20 + 10 + 24 + 10 = 64

Hence, option E is correct.

2. Since Monika and Neha are twins so their ages be same. Let their ages be x and and age of Bharti be y, then,

x + x = y   ...(i)

and $\dfrac{(x-3)}{(y-3)} = \dfrac{5}{11}$

⇒ 11x − 33 = 5y − 15

⇒ 11x − 5y = 18

Now, from equation (i) putting y in terms of x, we get

11x − 10x = 18

⇒ x = 18

So, the age of Bharti 7 years hence will be 18 + 18 + 7 = 43 years.

Hence, option E is correct.

3. **Method I:** Total age of 15 employees = 15 × 24 = 360

Total age of 20 employees = 20 × 26 = 520

Let the average age of 5 new employees be x.

Therefore, the total age of the new employees = 5x

Hence, the total age of 20 employees = 360 + 5x

∴ 520 = 360 + 5x

∴ 160 = 5x

∴ x = 32

The average age of the new employees = 32

Hence, option D is correct.

Method II: Average age increased by 2 years i.e. 24 + 2 = 26 years

Total increment in Group's age (15 + 5) × 2 = 40 years

Now, avg age of new employees = $24 + \dfrac{40}{5}$ = 32 years

4. Let the present age of John be x and that of his son be y

Forming equations

x – 5 = 5(y – 5)

x + 5 = 3(y + 5)

After soving we get

x = 55 and y = 15

After how many years, he will be twice as old as son

55 + x = 2 (15 + x)

x = 25 years

The answer can be found by trying options = $\dfrac{(55 + 25)}{(15 + 25)}$ = 2

Hence, option B is correct.

5. Let age of Rajan be x and that of his son be y

So as per the question:

$(x - 2) : (y - 2) = 4 : 1$ or $4(y - 2) = x - 2$ (this is the first equation)

$(x + 5) : (y + 5) = 5/2$ or $5(y + 5) = 2(x + 5)$ (this is the second equation)

Solving both of them we get x = 30 and y = 9

So present age of the son is 9 years

Hence, option D is correct.

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6. Let the present ages of John and his son be x and y years respectively.

The first situation can be written as:

$(x - 2) = 4(y - 2)$ ....**(i)**

And the second situation can be written as:

$(x + 1) = 3(y + 1)$ ....**(ii)**

Solving above equations we get

x = 26 and y = 8

Therefore the difference between their present ages = 26 − 8 = 18 years

Hence, option B is correct.

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7. Since Diksha and Prachi are twins so their ages be same. Let their ages be x and age of Deepika be y, then, x + x = y   **...(i)**

and $\dfrac{(x - 4)}{(y - 4)} = \dfrac{3}{7}$

$\Rightarrow 7x - 3y = 16$
Now, from equation (i) putting y in terms of x, we get
$7x - 6x = 16$
$\Rightarrow x = 16$
So, the age of Deepika 4 year hence will be 2x + 4 = 32 + 4 = 36 years.
Hence, option E is correct.

8. Total age of brother and sister = 26 × 2 = 52

After 4 years the total of their age

52 + 4 + 4 = 7x + 8x

15x = 60

x = 4

After 4 years brother's age = 28 years

sister's age = 32 yeras

Brother's present age = 28 − 4 = 24 years

Hence, option C is correct.

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9. Ratio between the ages of Meetali and Meennakshi = 7 : 9
The age of Meetali = 7x, The age of Meenakshi = 9x
Because Meenakshi is 4 years older than Meetali so,
9x − 7x = 4
2x = 4
x = 2
So Meenakshi's present age = 9 × 2 = 18 years
Meenakshi' age after 4 years = 18 + 4 = 22 years
Hence, option C is correct.

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10. Age of Geeta = x year, Age of Meeta = x + 4, Age of Seeta = x + 4 − 6 = x − 2
Average age of Geeta and Seeta = (x + x − 2)/ 2
24 × 2 = 2x − 2
48 + 2 = 2x
50 = 2x
x = 25 years
Age of Geeta = 25 years, Age of Meeta = 29 years, Age of Seeta = 23 years
Sum = 25 + 29 + 23
= 77 years
Hence, option A is correct.
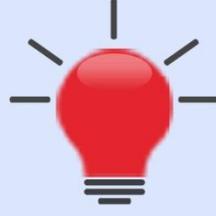
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