

1- The ratio between the present ages of P and Q is 6:7. If Q is 4 years old than P. What will be the ratio of the ages of P and Q after 4 years?

- **A.** 6 : 7
- **B.** 7 : 8
- **C.** 8 : 9
- **D.** Data inadequate
- **E.** None of these

Answer & Explanation

Answer - **B** (7 : 8)

Explanation - Let P's age and Q's age be 6X years and 7X years respectively

Then, $7X - 6X = 4$

$X = 4$

Required ratio = $(6X + 4) : (7X + 4) = 28 : 32 = 7 : 8$

2- The Average age of a class of 22 students is 21 years. The average increased by 1 when the teacher's age also included. What is the age of the teacher?

- **A.** 41
- **B.** 42
- **C.** 44
- **D.** 45
- **E.** None of these

Answer & Explanation

Answer - **C** (44)

Explanation - Avg x Number = Total

21 years x 22 nos = 462 years(1)

22 years x 23 nos = 506 years

Teacher's age = (2) - (1) = $506 - 462 = 44$ Years

3- At present, the ratio between the ages of Arun and Deepak is 4:3. After 6 years, Arun's age will be 26 years. What is the age of Deepak at present?

- A.12
- B.15
- C.18
- D.20
- E.None of these

Answer & Explanation

Answer - B (15)

Explanation - Let the present ages of Arun and Deepak be $4x$ years and $3x$ years respectively

Then,

$$4x + 6 = 26 \qquad 4x = 20 \qquad x = 5$$

Deepak's age = $3x = 15$ years

4- A father is twice as old as his son. 20 years ago, the age of the father was 12 times the age of the son. The present age of the father (in years) is:

- A.40
- B.43
- C.45
- D.46
- E.None of these

Answer & Explanation

Answer - E (None of these)

Explanation - Let son's age = x . Then father's age = $2x$

$$12(x - 20) = (2x - 20) \qquad 10x = 220 \qquad x = 22$$

Father's present age = 44 years

5- Ten years ago, Kumar was thrice as old as Selva was but 10 years hence, he will be only twice as old. Find Kumar's present age?

- **A.30**
- **B.32**
- **C.34**
- **D.36**
- **E.None of these**

Answer & Explanation

Answer - **A** (30)

Explanation - Let Kumar's present age be x years and Selva's present age be y years

Then, according to the first condition,

$$x - 10 = 3(y - 10)$$

$$\text{or, } x - 3y = -20 \quad \dots\dots(1)$$

Now, Kumar's age after 10 years = $(x + 10)$ years

Selva's age after 10 years = $(y + 10)$

$$(x+10) = 2(y+10)$$

$$\text{or, } x - 2y = 10 \quad \dots\dots(2)$$

Solving (1) and (2), we get

$$x = 70 \text{ and } y = 30$$

Kumar's age = 70 years and Selva's age = 30 years

6- Present ages of Sameer and Anand are in the ratio of 5 : 4 respectively. Three years hence, the ratio of their ages will become 11 : 9 respectively, What is Anand's present age in years?

- **A.22**
- **B.24**
- **C.26**
- **D.30**
- **E.None of these**

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Answer & Explanation**Answer** - B (24)**Explanation** - Let the present ages of Sameer and Anand be $5x$ years and $4x$ years respectively

$$\text{Then, } \frac{5X + 3}{4X + 3} = \frac{11}{9} \quad 9(5X + 3) = 11(4X + 3) \quad X = 6$$

Anand's present age = $4X = 24$ years

7- A father is four times as old as his son today. After 20 years, he would be just twice as old. At the time of birth of his son, how much old must the father be?

- A.28
- B.30
- C.32
- D.35
- E.None of these

Answer & Explanation**Answer** - B (30)**Explanation** - Let the ages of son and father today by ' x ' and ' $4x$ ' years respectively.

$$4x + 20 = 2(x + 20) \text{ ---> As per information}$$

$$x = 10 \text{ years} \implies 4x = 40 \text{ years}$$

At the time of birth of his son, father must be $40 - 10 = 30$ old

8- The total of the ages of Jayant, Prem and Saransh is 93 years. Ten years ago, the ratio of their ages was 2 : 3 : 4. What is the present age of Saransh?

- A.35
- B.36
- C.37
- D.38
- E.None of these

Answer & Explanation

Answer - **D** (38)

Explanation - Let the ages of Jayant, Prem and Saransh 10 years ago be $2x$, $3x$ and $4x$ years respectively

$$\text{Then, } (2x + 10) + (3x + 10) + (4x + 10) = 93$$

$$9x = 63$$

$$x = 7$$

$$\text{Saransh's present age} = (4x + 10) = 38 \text{ years}$$

9- Sushil was thrice as old as Snehal 6 years back. Sushil will be $\frac{5}{3}$ times as old as Snehal 6 years hence. How old is Snehal today?

- **A.**10
- **B.**11
- **C.**12
- **D.**13
- **E.**None of these

Answer & Explanation

Answer - **C** (12)

Explanation - Let Snehal's age 6 years back = X

Then, Sushil's age 6 years back = $3X$.

$$\text{Then } \frac{5}{3}(X + 6 + 6) = (3X + 6 + 6)$$

$$5(X + 12) = 3(3X + 12)$$

$$4X = 24$$

$$X = 6$$

$$\text{Snehal's age today} = (X + 6) \text{ years} = 12 \text{ years}$$

10- The ages of Kamaraj and Deenan differ by 16 years, Six years ago, Mohan's age was thrice as that of Kamaraj's find their present ages of Mohan?

- **A.**14
- **B.**16
- **C.**20
- **D.**30
- **E.**None of these

Answer & Explanation

Answer - **D** (30)

Explanation - Let Kamaraj's age = X years

So, Mohan's age = (X + 16) years

Also, $3(X - 6) = X + 16 - 6$ or, $X = 14$

Kamaraj's age = 14 years

and, Mohan's age = $14 + 16 = 30$ years