

31- Meeta is two years older than Sunita. After six years the sum of their ages will be seven times their present age. Find out the age of Meeta?

- **A.**24
- **B.**28
- **C.**32
- **D.**Data inadequate
- **E.**None of these

Answer & Explanation

Answer - **D** (Data inadequate)

Explanation - Let Sunita's age = X. Then Meeta's age = X + 2

After six years the sum of their ages will be seven times of what? Not clear.

Hence given data are inadequate.

32- The ages of A and B are in the ratio of 6:5 and sum of their ages is 44 years. The ratio of their ages after 8 years will be:

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

Answer & Explanation

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

Explanation - Let present ages (in years) of A and B respectively, be 6X and 5X

Given: $6X + 5X = 44$

$X = 4$

Ratio of ages after 8 years will be

$6X + 8 : 5X + 8$

or, $32 : 28$ or $8 : 7$

33- The ratio of the ages of mother to that of daughter is 7:3 today. After 5 years, this ratio would be 2:1. How many years old should the mother be at the time of birth of her daughter?

- **A.15**
- **B.20**
- **C.30**
- **D.35**
- **E.None of these**

Answer & Explanation

Answer - **B** (20)

Explanation - Let the ages of mother and daughter today be "7X" and "3X" years respectively.

Thus, 5 years, hence, we get,

$$\frac{7X + 5}{3X + 5} = \frac{2}{1} \quad X = 5$$

Thus, the age of mother today is 35 years and that of daughter's today is 15 years,
Hence, at the time

of birth of her daughter, mother should have been $(35-15) = 20$ years old.

34- Father is aged three times more than his son Ronit. After 8 years, he would be two and a half times of Ronit's age. After further 8 years, how many times would he be of Ronit's age?

- **A.1.5**
- **B.2**
- **C.2.5**
- **D.3**
- **E.None of these**

Answer & Explanation**Answer** - B (2)**Explanation** - Let Ronit's present age be X years. Then, father's present age = (X + 3X) years = 4X years.

$$(4X + 8) = \frac{5}{2}(X + 8) \quad 8X + 16 = 5X + 40 \quad 3X = 24 \quad X = 8$$

$$\text{Hence, required ratio} = \frac{(4X + 16)}{(X + 16)} = \frac{48}{24} = 2$$

35- The ratio of the ages of Swati and Varun is 2 : 5, After 8 years, their ages will be in the ratio of 1 : 2. The difference in their present ages (in years) is?

- **A.8**
- **B.16**
- **C.40**
- **D.24**
- **E.None of these**

Answer & Explanation**Answer** - D (24)**Explanation** - Let Swati's age = 2X and Varun's age = 5X

$$\frac{2X + 8}{5X + 8} = \frac{1}{2} \quad 2(2X + 8) = 5X + 8$$

$$X = 8$$

Swati's age = 16 years

and Varun's age = 40 years

Difference of their ages = 24 years.

36- One year ago the ratio between Samir and Ashok's age was 4:3. One year hence the ratio of their ages will be 5:4. What is the sum of their present ages in years?

- **A.15**
- **B.16**
- **C.17**

- **D.18**
- **E.None of these**

Answer & Explanation

Answer - **B** (16)

Explanation - Let one year ago

Samir's age be $4X$ years

And, Ashok's age be $3X$ years

Present age of Samir = $(4X + 1)$ years

Present age of Ashok = $(3X + 1)$ years

One year hence

Samir's age = $(4X + 2)$ years

Ashok's age = $(3X + 1)$ years

According to question,

$$\frac{4X + 2}{3X + 2} = \frac{5}{4} \quad 16 + 8 = 15X + 10$$

or, $X = 2$

Sum of their present ages = $4X + 1 + 3X + 1$

= $7X + 2$

= $7 \times 2 + 2 = 16$ years.

37- A father said to his son, "I was as old as you are at present at the time of your birth."
If the father's age is 38 years now, the son's age five years back was:

- **A.14**
- **B.19**
- **C.38**
- **D.40**
- **E.None of these**

Answer & Explanation

Answer - A (14)

Explanation - Let son's present age be X years. Then, $(38 - X) = X$

$$2X = 38$$

$$X = 19$$

Son's age 5 years back = $(19 - 5)$ years = 14 years

38- Ratio of Ashok's age to pradeep's age is 4:3. Ashok will be 26 years old after 6 years. How old is Pradeep now?

- **A.15**
- **B.18**
- **C.20**
- **D.25**
- **E.None of these**

Answer & Explanation

Answer - A (15)

Explanation - Let the present ages of Ashok and Pradeep be 4X and 3X

$$\text{So that } 4X + 6 = 26$$

$$X = 5$$

Present age of Pradeep is $3X = 3 \times 5$, i.e. 15 years

39- The ages of Ram and Mukta are in the ratio of 3 : 5. After 9 years, the ratio of their ages will become 3 : 4. The present age of Muka (in years) is:

- **A.15**
- **B.20**
- **C.25**
- **D.30**
- **E.None of these**

Answer & Explanation**Answer** - A (15)**Explanation** - Let Ram's age = $3X$ and Mukta's age = $5X$

$$\frac{3X + 9}{5X + 9} = \frac{3}{4} \quad 4(3X + 9) = 3(5X + 9)$$

Mukta's age = 15 years.

40- The average age of class of 50 students is 24 years. If the average of 10 of them is 22 years, while average of another 10 is 26 years. What is the average of the remaining 30 students?

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

Answer & Explanation**Answer** - B (24 years)**Explanation** -

| | Difference | Total |
|-------------|----------------------|-------|
| | (22 Years) - 2 => | -20 |
| 50 Students | 10 (26 Years) + 2 => | +20 |
| | 30(?) | |

Observe that 10 students have an average of 22 years (2 years below 24). While another 10 students

have an average of 26 years (2 years above 24). Thus, the effect by (-2) is nullified by the effect of

(+2).As such, the average of remaining 30 students would remain same as 24 years.

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