



Top-20 SSC CHSL Ages Questions

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Instructions

For the following questions answer them individually

Question 1

I am three times as old as my son. 15 years hence, I will be twice as old as my son. The sum of our ages is

- A 48 years
- B 60 years
- C 64 years
- D 72 years

Answer: B

Explanation:

Let's say son's age is x

hence father's present age will be $3x$

after 15 years son's age will be $x + 15$ and father's age will be $3x + 15$ and it is twice the age of son

so $3x + 15 = 2(x + 15)$

solve for x

Question 2

At present, the ratio of the ages of Maya and Chhaya is 6:5 and fifteen years from now, the ratio will get changed to 9:8. Maya's present age is

- A 21 years
- B 24 years
- C 30 years
- D 40 years

Answer: C

Explanation:

Let's say maya's age is $6x$ and chaya's age is $5x$.

after 15 years ages will be $6x + 15$ and $5x + 15$.

New ratio will be $\frac{6x+15}{5x+15} = \frac{9}{8}$.

After solving above equation we will get x equals to 5

So maya's age will be 30.

Question 3

An employer reduces the number of employees in the ratio 8 : 5 and increases their wages in the ratio 7 : 9. As a result, the overall wages bill is

- A Increased in the ratio 56 : 69
- B Decreased in the ratio 56 : 45
- C Increased in the ratio 13 : 17
- D Decreased in the ratio 17 : 13

Answer: B

Explanation:

Let's say employees were change from $8x$ to $5x$ and wage per employee is changed from $7y$ to $9y$
Hence total wage is changed from $56xy$ to $45xy$ or in a ratio of $56:45$

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Question 4

Ronald and Elan are working on an Assignment. Ronald takes 6 hours to type 32 pages on a computer, while Elan takes 5 hours to type 40 pages. How much time will they take working together on two different computers to type an assignment of 110 pages ?

- A 7 hrs. 30 min.
- B 8 hrs.
- C 8 hrs. 15 min.
- D 8 hrs.25 min.

Answer: C

Explanation:

Ronald takes 6 hours to type 32 pages

no.of pages typed by ronald per hour = $32/6 = 16/3$

Elan takes 5 hours to type 40 pages

no.of pages typed by elan per hour = $40/5 = 8$

in 1hr, both can type $8+16/3$ pages = $40/3$

time taken by both to type 110 pages = $110/(40/3) = 33/4 = 8\text{hrs } 15\text{mins}$ ($\because 1/4 \text{ hr} = 15\text{mins}$)

so the answer is option C.

Question 5

The ratio of present ages of Ratnabali and Shaukat is 8:5. After 22 years the ratio of their ages will be 10:9. At present, what is Ratnabali's age?

- A 5
- B 14
- C 81
- D 8

Answer: D

Explanation:

Let Ratnabali's present age = $8x$ years and Shaukat's present age = $5x$ years

According to ques, $\Rightarrow \frac{8x+22}{5x+22} = \frac{10}{9}$

$$\Rightarrow 72x + 198 = 50x + 220$$

$$\Rightarrow 72x - 50x = 220 - 198$$

$$\Rightarrow 22x = 22$$

$$\Rightarrow x = \frac{22}{22} = 1$$

\therefore Ratnabali's age = $8 \times 1 = 8$ years

\Rightarrow Ans - (D)

Question 6

The ratio of present ages of Ratna and Shantanu is 5:4. After 19 years the ratio of their ages will be 10:9. What is Ratna's present age?

- A 19
- B 15
- C 9
- D 72

Answer: A

Explanation:

Let Ratna's present age = $5x$ years and Shantanu's present age = $4x$ years

According to ques, $\Rightarrow \frac{5x+19}{4x+19} = \frac{10}{9}$

$$\Rightarrow 45x + 171 = 40x + 190$$

$$\Rightarrow 45x - 40x = 190 - 171$$

$$\Rightarrow 5x = 19$$

$$\Rightarrow x = \frac{19}{5}$$

$$\therefore \text{Ratna's age} = 5 \times \frac{19}{5} = 19 \text{ years}$$

\Rightarrow Ans - (A)

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Question 7

The ratio of present ages of Ranjini and Shahid is 5:4. After 13 years the ratio of their ages will be 6:5. What is Ranjini's present age?

- A 52
- B 65
- C 60
- D 32

Answer: B

Explanation:

Let Ranjini's present age = $5x$ years and Shahid's present age = $4x$ years

According to ques, $\Rightarrow \frac{5x+13}{4x+13} = \frac{6}{5}$

$$\Rightarrow 25x + 65 = 24x + 78$$

$$\Rightarrow 25x - 24x = 78 - 65$$

$$\Rightarrow x = 13$$

$$\therefore \text{Ranjini's age} = 5 \times 13 = 65 \text{ years}$$

\Rightarrow Ans - (B)

Question 8

The sum of the ages of husband and wife at present is 100. Ten years ago the ratio of their ages was 9:7. What is the age of the husband?

- A 45 years
- B 55 years
- C 65 years
- D 40 years

Answer: B

Explanation:

Let husband's age = x years

=> Wife's age = $(100 - x)$ years

According to ques,

$$\Rightarrow \frac{x-10}{100-x-10} = \frac{9}{7}$$

$$\Rightarrow \frac{x-10}{90-x} = \frac{9}{7}$$

$$\Rightarrow 7x - 70 = 810 - 9x$$

$$\Rightarrow 9x + 7x = 810 + 70 = 880$$

$$\Rightarrow x = \frac{880}{16} = 55 \text{ years}$$

=> Ans - (B)

Question 9

The ratio of present ages of Ramya and Saurabh is 8:7. After 10 years the ratio of their ages will be 12:11. What is Ramya's present age?

- A 20
- B 14
- C 63
- D 45

Answer: A

Explanation:

Let Ramya's present age = $8x$ years and Saurabh's present age = $7x$ years

$$\text{According to ques, } \Rightarrow \frac{8x+10}{7x+10} = \frac{12}{11}$$

$$\Rightarrow 88x + 110 = 84x + 120$$

$$\Rightarrow 88x - 84x = 120 - 110 = 10$$

$$\Rightarrow x = \frac{10}{4} = 2.5$$

\therefore Ramya's age = $8 \times 2.5 = 20$ years

=> Ans - (A)

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Question 10

The sum of the ages of husband and wife at present is 60. Four years ago the ratio of their ages was 7:6. What is the age of the husband?

- A 28 years
- B 32 years
- C 42 years
- D 38 years

Answer: B

Explanation:

Let present age of husband = x years

=> Present age of wife = $(60 - x)$ years

Ratio of their ages 4 years ago = $\frac{x-4}{(60-x)-4} = \frac{7}{6}$

$$= \frac{x-4}{56-x} = \frac{7}{6}$$

$$= 6x - 24 = 392 - 7x$$

$$=> 6x + 7x = 392 + 24 = 416$$

$$=> x = \frac{416}{13} = 32 \text{ years}$$

Question 11

The ratio of present ages of Rangitha and Shaheen is 6:5. After 12 years the ratio of their ages will be 7:6. What is Rangitha's present age?

- A 60
- B 55
- C 72
- D 28

Answer: C

Explanation:

Let present age of Rangitha = $6x$ years

=> Present age of Shaheen = $5x$ years

According to question, => $\frac{6x+12}{5x+12} = \frac{7}{6}$

$$=> 36x + 72 = 35x + 84$$

$$=> x = 84 - 72 = 12$$

∴ Rangitha's present age = $6 \times 12 = 72$ years

Question 12

The brother is elder to his sister by 6 years. Seven years ago the product of their ages was 72. What is the age of the brother?

- A 13 years
- B 12 years
- C 6 years
- D 19 years

Answer: D

Explanation:

Let age of brother = x years

=> Age of sister = $(x - 6)$ years

Product of their ages 7 years ago = $(x - 7) \times (x - 13) = 72$

$$\Rightarrow x^2 - 13x - 7x + 91 - 72 = 0$$

$$\Rightarrow x^2 - 20x + 19 = 0$$

$$\Rightarrow x^2 - x - 19x + 19 = 0$$

$$\Rightarrow x(x - 1) - 19(x - 1) = 0$$

$$\Rightarrow (x - 1)(x - 19) = 0$$

$$\Rightarrow x = 1, 19$$

Since, $x \neq 1$, => Age of brother = 19 years

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Question 13

The sum of the ages of husband and wife at present is 56. Ten years ago the product of their ages was 320. What is the age of the husband and the wife?

A 28, 28

B 32, 24

C 30, 26

D 29, 27

Answer: C

Explanation:

Let husband's age = x years

=> Wife's age = $(56 - x)$ years

According to ques, $(x - 10)(56 - x - 10) = 320$

$$\Rightarrow (x - 10)(46 - x) = 320$$

$$\Rightarrow 46x - x^2 - 460 + 10x = 320$$

$$\Rightarrow x^2 - 56x + 780 = 0$$

$$\Rightarrow x^2 - 30x - 26x + 780 = 0$$

$$\Rightarrow x(x - 30) - 26(x - 30) = 0$$

$$\Rightarrow (x - 30)(x - 26) = 0$$

$$\Rightarrow x = 30, 26$$

∴ Ages of the husband and the wife = 30 and 26 years

Question 14

The ratio of present ages of Rambha and Sarvesh is 8:5. After 7 years the ratio of their ages will be 5:4. What is Rambha's present age?

A 5

B 30

C 8

D 48

Answer: C

Explanation:

Let Rambha's present age = $8x$ years and Sarvesh's present age = $5x$ years

According to ques, $\Rightarrow \frac{8x+7}{5x+7} = \frac{5}{4}$

$$\Rightarrow 32x + 28 = 25x + 35$$

$$\Rightarrow 32x - 25x = 35 - 28$$

$$\Rightarrow 7x = 7$$

$$\Rightarrow x = \frac{7}{7} = 1$$

\therefore Rambha's age = $8 \times 1 = 8$ years

\Rightarrow Ans - (C)

Question 15

The ratio of ages of father and son is 7:2. Five years ago the product of their ages was 150. What is the age of the father?

A 30 years

B 45 years

C 35 years

D 40 years

Answer: C

Explanation:

Let father's age = $7x$ years and son's age = $2x$ years

According to ques, $\Rightarrow (7x - 5)(2x - 5) = 150$

$$\Rightarrow 14x^2 - 35x - 10x + 25 - 150 = 0$$

$$\Rightarrow 14x^2 - 45x - 125 = 0$$

$$\Rightarrow 14x^2 - 70x + 25x - 125 = 0$$

$$\Rightarrow 14x(x - 5) + 25(x - 5) = 0$$

$$\Rightarrow (x - 5)(14x + 25) = 0$$

$$\Rightarrow x = 5, \frac{-25}{14}$$

Since, age can't be negative, thus $x = 5$

\therefore Father's age = $7 \times 5 = 35$ years

\Rightarrow Ans - (C)

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Question 16

The sum of the ages of father and son at present is 33. Two years ago the product of their ages was 28. What is the age of the father and the son?

A 26, 7

B 30, 3

C 29, 4

D 32, 1

Answer: B

Explanation:

Let the age of son = x years and father's age = $(33 - x)$ years

Product of their ages 2 years ago = $(x - 2)(33 - x - 2) = 28$

$$\Rightarrow (x - 2)(31 - x) = 28$$

$$\Rightarrow 31x - x^2 - 62 + 2x = 28$$

$$\Rightarrow x^2 - 33x + 90 = 0$$

$$\Rightarrow x^2 - 3x - 30x + 90 = 0$$

$$\Rightarrow x(x - 3) - 30(x - 3) = 0$$

$$\Rightarrow (x - 3)(x - 30) = 0$$

$$\Rightarrow x = 30, 3$$

\therefore Ages of father and son are 30 and 3

\Rightarrow Ans - (B)

Question 17

The sum of the ages of brother and sister at present is 21. Five years ago the product of their ages was 28. What is the age of the brother and the sister?

A 9, 12

B 6, 15

C 7, 14

D 8, 13

Answer: A

Explanation:

Let the age of brother = x years and sister's age = $(21 - x)$ years

Product of their ages 5 years ago = $(x - 5)(21 - x - 5) = 28$

$$\Rightarrow (x - 5)(16 - x) = 28$$

$$\Rightarrow 16x - x^2 - 80 + 5x = 28$$

$$\Rightarrow x^2 - 21x + 108 = 0$$

$$\Rightarrow x^2 - 9x - 12x + 108 = 0$$

$$\Rightarrow x(x - 9) - 12(x - 9) = 0$$

$$\Rightarrow (x - 12)(x - 9) = 0$$

$$\Rightarrow x = 12, 9$$

\therefore Ages of brother and sister are 12 and 9

\Rightarrow Ans - (A)

Question 18

The ratio of present ages of Rangana and Sayed is 7:5. After 11 years the ratio of their ages will be 4:3. What is Rangana's present age?

- A 55
- B 77
- C 70
- D 96

Answer: B

Explanation:

Let Rangana's present age = $7x$ years and Sayed's present age = $5x$ years

According to ques, $\Rightarrow \frac{7x+11}{5x+11} = \frac{4}{3}$

$$\Rightarrow 21x + 33 = 20x + 44$$

$$\Rightarrow 21x - 20x = 44 - 33$$

$$\Rightarrow x = 11$$

\therefore Rangana's age = $7 \times 11 = 77$ years

\Rightarrow Ans - (B)

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Question 19

The ratio of present ages of Ramita and Satyajit is 9:7. After 9 years the ratio of their ages will be 5:4. What is Ramita's present age?

- A 81
- B 63
- C 56
- D 80

Answer: A

Explanation:

Let Ramita's present age = $9x$ years and Satyajit's present age = $7x$ years

According to ques, $\Rightarrow \frac{9x+9}{7x+9} = \frac{5}{4}$

$$\Rightarrow 36x + 36 = 35x + 45$$

$$\Rightarrow 36x - 35x = 45 - 36$$

$$\Rightarrow x = 9$$

\therefore Ramita's age = $9 \times 9 = 81$ years

\Rightarrow Ans - (A)

Question 20

The ratio of present ages of Rasika and Shami is 7:5. After 17 years the ratio of their ages will be 12:11. What is Rasika's present age?

- A 5

B 80

C 16

D 7

Answer: D

Explanation:

Let Rasika's present age = $7x$ years and Shami's present age = $5x$ years

According to ques, $\Rightarrow \frac{7x+17}{5x+17} = \frac{12}{11}$

$$\Rightarrow 77x + 187 = 60x + 204$$

$$\Rightarrow 77x - 60x = 204 - 187$$

$$\Rightarrow 17x = 17$$

$$\Rightarrow x = \frac{17}{17} = 1$$

\therefore Rasika's age = $7 \times 1 = 7$ years

\Rightarrow Ans - (D)

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