Ages Questions for SBI PO 2020 PDF

Instructions
For the following questions answer them individually

Question 1

The respective ratio of the present ages of a mother and daughter is 7 : 1. Four years ago the respective ratio of their ages was 19:1. What will be the mother's age four years from now ?

A 42 years

B 38 years

C 46 years

D 36 years

E None of these

Answer: C

Explanation:
Let the present ages of mother and daughter be x and y respectively.

$\frac{y}{x} = \frac{1}{7}$ => x = 7y

$\frac{y-4}{x-4} = \frac{1}{19}$ => 19y - 76 = x - 4 => x = 19y - 72

=> 7y = 19y - 72 => y = 6 and x = 42

Age of mother 4 years from now = 42 + 4 = 46

Question 2

The ages of Aarzoo and Arnav are in the ratio of 11:13 respectively.After 7 years the ratio of their ages will be 20:23. What is the difference in years between their ages ?

A 4 years

B 7 years

C 6 years

D 5 years

E None of these

Answer: C

Explanation:
Let the ages of Aarzoo and Arnav be X and Y respectively.

Hence, $\frac{X}{Y} = \frac{11}{13}$

Similarly, $\frac{X+7}{Y+7} = \frac{20}{23}$

Solving both the equations, we get $X = 33$ and $Y = 39$

So, the difference in ages equals 6

Question 3

12 yr ago the ratio between the ages of A and B was 3:4 respectively. The present age of A is $3\frac{3}{4}$ times of C's present age. If C's present age is 10 yr, then what is B's present age?

A 48

B 46

C 60

D 54

E 36

Answer: B

Explanation:

$\frac{a-12}{b-12} = \frac{3}{4}$

$\frac{a}{c} = \frac{15}{4}$

c = 10 => a = 37.5

=> b = 46 years

Question 4

The ratio of the present ages of a mother and daughter is 7:1 Four years ago the ratio of their ages was 19:1 what will be the mother's age four years from now ?

A 42 years

B 38 years

C 46 years

D 36 years

E None of these

Answer: C

Explanation:

Let the present ages of daughter and mother be d and m respectively.

7d = m

19(d-4) = m-4

=> 19d - 76 = 7d - 4

=> 12d = 72

=> d = 6 and m = 42

Mother's age four years from now will be 42 + 4 = 46

Question 5

10 years ago, the ages of A and B were in the ratio of 13: 17. 17 years from now the ratio of their ages will be 10: 11. What is the age of B at present ?

A 37 years

B 40 years

C 27 years

D 44 years

E None of these

Answer: C

Explanation:
Let the present ages of A and B be x and y.
10 years ago, the ages of A and B were in the ratio of 13: 17 i.e $\frac{x-10}{y-10} = \frac{13}{17}$
i.e 17x - 13y = 40

17 years from now the ratio of their ages will be 10: 11. i.e $\frac{x+17}{y+17} = \frac{10}{11}$
i.e 10y-11x = 17
Simultaneously solving the two equation we get, x=23 and y=27 years.
Option C is correct answer.

Question 6

The ages of Nishi and Vinnee are in the ratio of 6:5 After 9 years the ratio of their ages will be 9:8 What is the difference in their ages ?

A 9 years

B 7 years

C 5 years

D 3 years

E None of these

Answer: D

Explanation:
Let the agesof Nishi and Vinnee be x and y.
Now, as per given conditions,
(x/y) = (6/5) i.e 5x=6y
after 9 years,
(x+9)/(y+9) = 9/8 i.e 8x-9y=9

After solving we get x = 18 and y = 15.
Differences in the ages = 18-15=3
Hence, option D is correct.

Question 7

The ratio of the ages A and B is 4: 3. The ratio of their ages eight years from now will be 6: 5. How old was A, when B was 7 years old ?

A 16 years

B 11 years

C 9 years

D 12 years

E None of these

Answer: B

Explanation:

Let's say ages of A and B are 4x and 3x

8 years from now their ages will be = 4x+8 and 3x+8

Hence, $\frac{4x+8}{3x+8} = \frac{6}{5}$

So x=4 and age of A = 16 and age of B = 12

So when B will be 7 year old, A will be 11 year old

Question 8

At present Kavita is twice Sarita's age Eight years hence the respective ratio between Kavita's and Sarita's ages then will be 22:13. What is Kavita's present age ?

A 26 yr

B 18 yr

C 42 yr

D 36 yr

E None of these

Answer: D

Explanation:
Let the Kavita's present age be 2x.
Sarita's present age is x.
Now, 8 years hence,
(2x + 8)/(x +8) = 22/13
26x + 104 = 22x + 176
x = 18
Hence, Kavita's age = 18*2 = 36 years.
Option D is correct option.

Question 9

The ages of Samir and Tanuj are in the ratio of 8: 15 years respectively. After 9 years the ratio of their ages will be 11: 18. What is the difference in years between their ages ?

A 24 years

B 20 years

C 33 years

D 21 years

E None of these

Answer: D

Explanation:
We have S/t=8/15, Then we have S+9/t+9=11/18 Solve for t we get 45 And S As 24 Difference is 21.

Question 10

The present ages of A, B and C are in the ratio of 8: 14: 22 respectively. The present ages of B, C and D are in ratio of 21: 33: 44 respectively. Which of the following represents the ratio of the present ages of A, B, C and D respectively ?

A 12: 21: 33: 44

B 12: 22: 31: 44

C 12: 21: 36: 44

D Cannot be determined

E None of these

Answer: A

Explanation:
Ratio of A:B:C = 8:14:22 = 12:21:33

So, the required ratio of ages of A, B, C and D is 12 : 21 : 33 : 44.

Question 11

Present ages of Seema and Naresh are in the respective ratio of 5:7. Five years hence the ratio of their ages become 3: 4 respectively. What is Naresh's present age in years ?

A 35

B 40

C 30

D Can not be determined

E None of these

Answer: A

Explanation:
Let their ages be s,n respectively, we have s/n=5/7,

(S+5)/(n+5)=3/4,

4s+20=3n+15

but we have, s=5n/7

so, 20n/7+20=3n+15

Solving for n we have 35.

Question 12

Present ages of Radha and Sudha are in the ratio of 7 : 9 respectively. Five years ago ratio of their ages that time was 3 : 4. What will be Sudha's age after 3 years from now ?

A 48 years

B 42 years

C 43 years

D 38 years

E None of these

Answer: A

Explanation:
Let the present ages of Radha and Sudha be R and S respectively.

Hence, R:S = 7:9 and (R-5):(S-5)=3:4
So, 9R = 7S and 4R-20 = 3S-15 or 4R = 3S+5

From the first equation, 36R=28S and from the second equation, 36R = 27S+45
Therefore, 28S = 27S+45 or S=45
So, Sudha's age three years from now will be 48 years old.

Question 13

The first division of congress took place in -

A Surat

B Kolkata

C Allahabad

D Chennai

Answer: A

Question 14

The ratio between the present ages of P and Q is 3:4 respectively.Four years hence Q will be five years older than P.What is P's present age ?

A 15 years

B 20 years

C 25 years

D Can't be determined

E None of these

Answer: A

Explanation:
Let P/q= 3/4, 4 years from hence means adding 4 to present ages of both p,q .

Also q is 5 years bigger than p after 4 years. so, p+9= q+4.

we already have p/q=3/4 or 3q=4p,

so, q=4/3p ,

p+9=4/3p+4,

p/3=5, so Solving for P we get 15.

Question 15

The sum of ages of a husband and wife in 2010 is 48 years. What will be the sum of their ages in 2022?

A 60 years

B 66 years

C 72 years

D 84 years

E Can't be determined

Answer: C

Explanation:
The husband is 12 years older in 2022, and so is the wife. Together they are 24 years older than they were in 2010. So, the correct answer is (c)