Ages

Direction (1-10):Read the followings and give the answers carefully.

1. Average age of A, B and C is 30 years. The sum of the present ages of B and C is 85 years. The difference between the present age of A and C is 50 years. Find the average age of B and C together?

A.40.5 years

B.41.5 years

C.42.5 years

D.43.5 years

E.None of these

Answer : C

Average age of A,B and C= 30

A+B+C= 90

Sum of the present age of B and C = 85

Difference between the present age of A and C= 50

The sum of the present age of A and B = 35 A+B+C - A+B= 90- 35 = 55

The present age of C= 55

The present age of B= 85-55= 30

Average age of B and C = (55 + 30)/2= 85/2 = 42.5 years

2. The present ages of mother and son are 28 and 7 years respectively. If the ratio of their ages will be 11 : 4 after x years, then find the value of x?

A.5

B.4

C.6

D.8

E. None of these

Answer : A

$(28 + x) / (7 + x) = 11 / 4$
$112 + 4x = 77 + 11x$
$35 = 7x$
$x = 5$

3. If one of the midfield players age is 25 years, then find the average age of other two midfield players.

A.26

B.28

C.30

D.25

E.None of these

Answer : B

Average age of 3 midfield players = 27
Sum of 3 midfield players age = 27 * 3 = 81
Sum of other two midfield players age = 81 – 25 = 56
Required average = 56 / 2 = 28

4. 3 years ago, the ratio of the age of A to B is 3:4. The present age of C is 33.33% more than that of A and the sum of the present age of B and C together is 71 years. Find the difference between the present age of A and B.

A.8 years

B.6 years

C.9 years

D.5 years

E.None of these

Answer : A

Let the present age of A = 3x + 3
And the present age of B = 4x + 3
4x + 3 + (3x + 3) * 133.33/100 = 71
4x + 3 + (3x + 3) * 4/3 = 71
4x + 4x = 71 – 3 – 4
8x = 64
x = 8
The present age of A = 3 * 8 + 3 = 27 years
The present age of B = 4 * 8 + 3 = 35 years
Required difference = 35 – 27 = 8 years

5. Find the difference between the ages of Aman and Amit, 10 years ago. The ratio of ages of Amit and Aman after 8 years will be 12: 11

respectively. 4 years ago, Arav's age was 62.5% of Aman's age at that time. Arav is the youngest and Amit is the eldest among three friends. The difference in the ages of Arav and Amit is 16 years.

A.6 years

B.5 years

C.8 years

D.4 years

E.None of these

Answer : D

According to the question,
Age of Amit: age of Aman after 8 years = 12: 11
(Age of Amit + 8): (age of Aman + 8) = 12 : 11

11 (Age of Amit) – 12 (age of Aman) = 8 ..... (1)
(Arav's age – 4) = 62.5% x (Aman's age – 4)
(Arav's age – 4) : (Aman's age – 4) = 5 : 8
8 (Age of Arav) – 5 (age of Aman) = 12 ..... (2)
Arav is the youngest among three friends
Amit is the eldest among three friends
Age of Amit - age of Arav = 16 years
From equations (1) and (2)
Age of Amit = 40 years
Age of Arav = 24 years
Age of Aman = 36 years
Age of Aman - age of Amit, 10 years ago = 4 years

6. The age of Mathi is 120% of the age of Suniland the ratio of the age of Sunil to Bala is 5:8. If the age of Mathi 5 years hence is equal to the age of Bala 5 years ago, then find the age of Sunil?

A.25 years

B.50 years

C.20 years

D.30 years

E.45 years

Answer : A

The ratio of the age of Mathi, Sunil and Bala =
(5 * 120/100):5:8 = 6:5:8
6x + 5 = 8x – 5
2x = 10
x = 5
The age of Sunil = 5 * 5 = 25 years

7. The age of father before 18 years is 2 years more than 140% of the present age of son. Ratio of the age of father before 8 years to the present age of son is 2:1. Find the average of the present age of father and son.

A.28 years

B.34 years

C.30 years

D.35 years

E.None of these

Answer : B

Present age of father = 2x + 8
Present age of son = x
(2x + 8 – 18) = [(140/100) * x] + 2
2x – 10 – 2 =(7/5) * x
2x – 12 = 7x/5
10x – 60 =7x
3x = 60
x = 20
Present age of father = (2 * 20) + 8 = 48 years
Present age of son = 20 years
Required average = (48 + 20)/2 =68/2= 34 years

8. The ratio of the age of A 5 years ago to the age of B 4 years hence is 2:5 and the ratio of the present age of B to A is 12:7. Find the sum of the present age of A and B together.

A.39 years

B.65 years

C.57 years

D.45 years

E.None of these

Answer : C

$(2x + 5)/(5x – 4) = 7/12$

$24x + 60 = 35x – 28$
$11x = 88$
$x = 8$
The present age of A = 2 * 8 + 5 = 16 + 5 = 21 years
The present age of B = 5 * 8 – 4 = 40 – 4 = 36 years
The sum of the present age of A and B together = 21 + 36 = 57 years

9. The sum of present age of A and B is 5/3rd ofthe present age of C and the ratio of the age of A to C is 10:9. If the sum of the present age of B and C together is 28 years, then find the present age of A.

A.40 years

B.10 years

C.30 years

D.20 years

E.None of these

Answer : D

Let the present age of C = 9x
And the present age of A = 10x
And the present age of B = (9x * 5/3) – 10x =
15x – 10x = 5x
ACQ,
9x + 5x = 28

14x = 28
x = 2
Therefore, the present age of A = 10 * 2 = 20 years

10. 4 years ago, the ratio of the age of A to B is 11:3. If the present age of A is two times more than the present age of B, then find the age of B 10 years hence.

A.42 years

B.30 years

C.55 years

D.26 years

E.None of these

Answer : D

(11x + 4)/(3x + 4) = 3/1
11x + 4 = 9x + 12
2x = 8
x = 4
The age of B 10 years hence = 3 * 4 + 4 + 10 = 12 + 14 = 26 years

A "copyright infringement notice warning" is a formal notification sent to an individual or entity informing them that they are suspected of using copyrighted material without permission, essentially stating that they are violating copyright laws and must cease and desist from further unauthorized use of the protected work; this notice typically includes details about the infringing material, the copyright owner's identity, and a request to remove the content or seek proper authorization to use it.