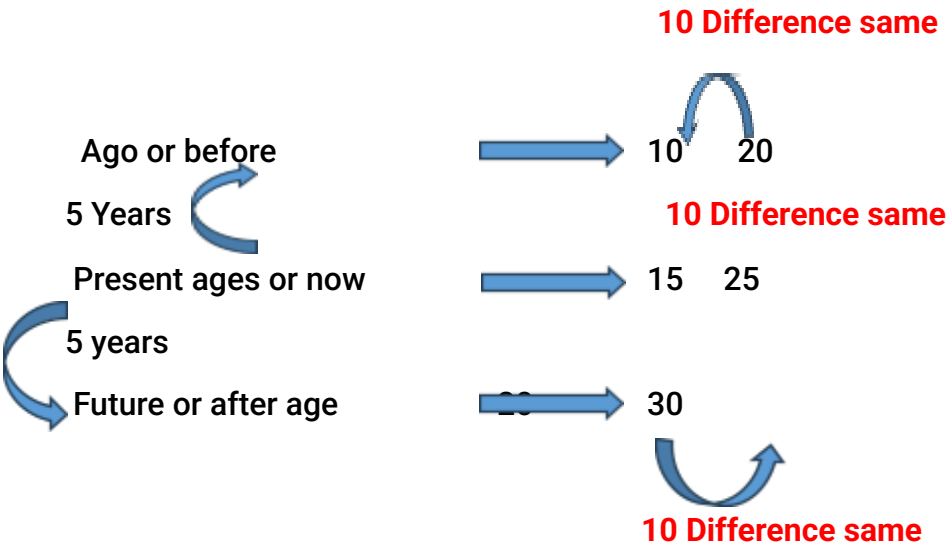
Name of the Bundle	Intermediate Bundle V2	Subject	Aptitude
Topic	Problems on Ages	Last updated on	04 January 2025

Problem On Ages (Concepts)



1. The present ages of Reena and Usha are 24 years and 36 years respectively. What was the ratio between the ages of Usha and Reena, 8 years ago?
   a. 7:4
   b. 6:5
   c. 2:3
   d. 4:7

Ans: a. 7.4

Explanation:

To find the ratio between the ages of Usha and Reena 8 years ago, we can subtract 8 from their current ages.

8 years ago, Reena's age was 24 - 8 = 16 years
8 years ago, Usha's age was 36 - 8 = 28 years

So, the ratio of Usha's age to Reena's age 8 years ago was 28:16, which simplifies to 7:4.

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2. Saran is 6 times older than his son Sankar. After 4 years, he will be 4 times as old as his son. What are their present ages?

a. 30, 5
b. 48, 8
c. 36, 6
d. 24, 4

Ans: c. 36, 6

Explanation:

Given, the father's age is six times his son's age.

We have to find the present ages of the father and the son.

Let the present age of the father be x years.

Let the present age of the son be y years.

Given, x = 6y ---------- (1)

After 4 years, the father's age is four times his son's age.

(x + 4) = 4(y + 4)

x + 4 = 4y + 16

x - 4y = 16 - 4

x - 4y = 12 ---------- (2)

For solving the linear equations (1) and (2), substitute (1) in (2),

6y - 4y = 12

2y = 12

y = 12/2

y = 6

Put y = 6 in (1),

x = 6(6)

x = 36

Therefore, the present ages of the father and the son are 36 years and 6 years.

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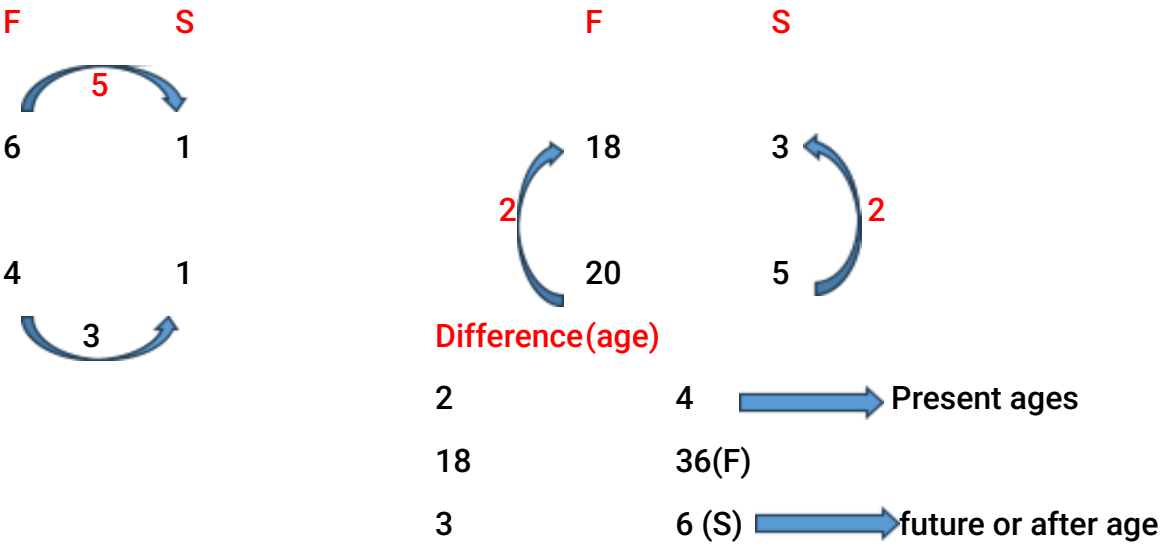
Alter method:



F & S (Present ages)

3. The ratio between the present ages of P and Q is 5:7 respectively. If the difference between Q's present age and P's age after 6 years is 2, what is the total of P's and Q's present ages?

a. 48 years
b. 52 years
c. 56 years
d. 30 years

Ans: a. 48 years
Explanation:

Present ages of P and Q = 5x years and 7x years

Then 7x - (5x + 6) = 2

2x = 8

∴ x = 4

∴ Required sum = 5x + 7x = 12x = 12 x 4 = 48 years

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4. A boy is now twice as old as his sister, four years ago, he was thrice as old as her. What are their ages now?

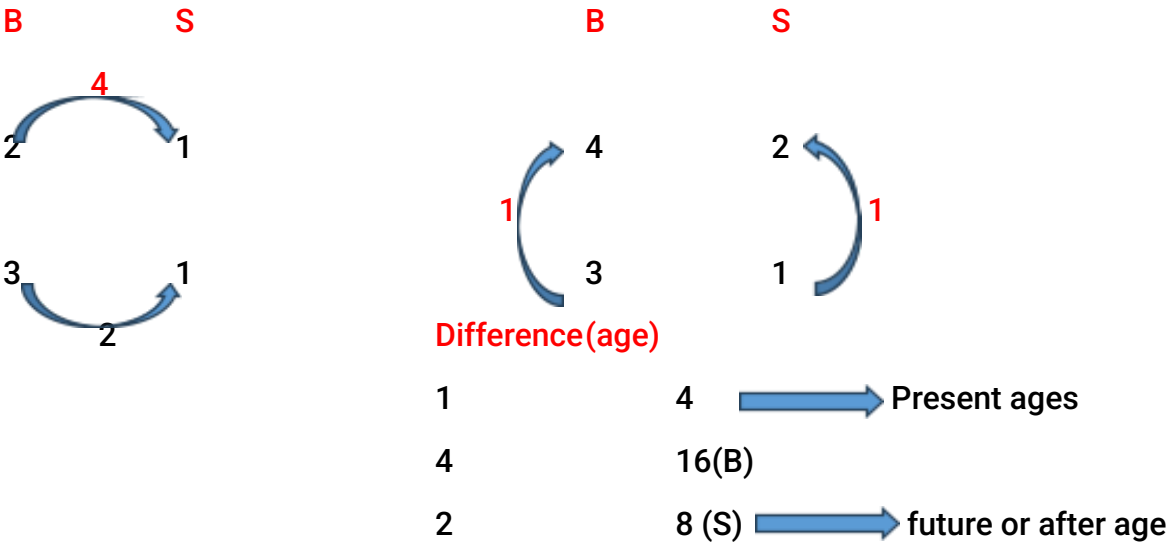
a. 18 , 9
b. 14 , 7
c. 16 , 8
d. 12 , 6

Ans: c. 16, 8

Explanation:

The Boy's age = A
The Sister's age = B
A boy is now twice as old as his sister A=2B
Four years ago, he was thrice as old as her
(A-4) = 3(B-4)
apply A = 2B
2B-4 = 3B-12
3B-2B = 12-4
B=8 ; A= 2B ; A=2(8) ; A=16
Boy's age=16 years ; Sister's age=8 years

Alter method



B & S (Present ages)

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5. The sum of the present ages of a father and his son is 60 years. Six years ago, the father's age was five times the age of the son. After 6 years, what is the son's age?

a. 12 years
b. 14 years
c. 18 years
d. 20 years

Ans: d. 20 years

Explanation:

Let the present ages of son and father be x and (60 -x) years respectively.

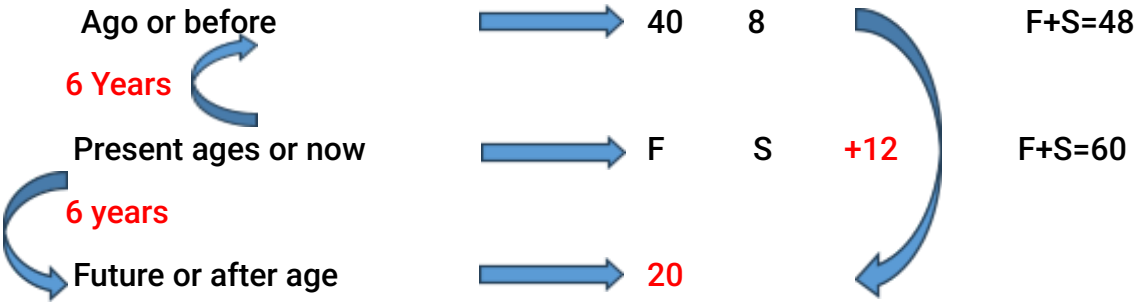
Then, (60 - x) - 6 = 5(x - 6)

54 - x = 5x - 30

6x = 84 x = 14.

Son's age after 6 years = (x+ 6)

Alter method:



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6. Ratio of ages of Muthu and Karthi at present is 5 : 3. But 6 years ago that ratio was 3 : 1. What is the ratio of their ages after 5 years?

a. 5 : 4
b. 10 : 7
c. 10 : 8
d. 4 : 3

Ans: b. 10 : 7
Explanation:

5x – 3/3x-1 =3/1

5x- 6= 9 x-18

4x= 12

X=3

Muthu's age = 5 x 3 = 15 years

Karthi's age = 3 x 3 = 9 years

After 5 years age will be 20 : 14

∴ 10 : 7.

Alter method:

		M	K		DIF	AGE
Ago or before	→	3	1		2	6
6 Years				2	5	15(M)
Present ages or now	→	5	3		3	9(K)
6 years						
Future or after age	20	→	14			

M K

20 : 14

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7. 3 years ago the average age of a family of 5 members was 17 years. After A baby is born, the Average age of the family is the same as today. The present age of the baby is

a. 1 year
b. 1 ½ years
c. 2 years
d. 3 years

Ans: c. 2 years
Explanation:

Given that,

3 years ago, the average age of 5 members = 17 years.

Total present age of 5 members = 17 × 5 + 3 × 5 = 100

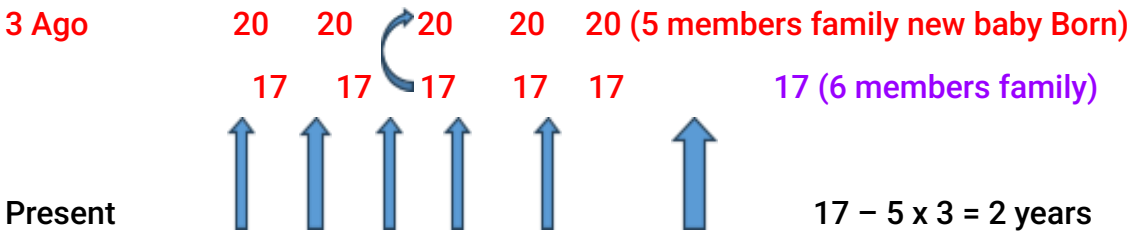
Born on new baby,

the average age of 6 members = 17 years.

Total present age of 6 members = 17 × 6=102

∴ Present age of child = 102 – 100 = 2 years

Alter method



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8. At present Abi is twice as old as Reeta. After seven years their age difference is 5 years. The present age of Reeta is ____.

a. 5
b. 7
c. 9
d. 10

Ans: a. 5
Explanation:

Reeta age = x

Abi age =2x

Age difference =5

(2x + 7) – (x + 7) =5

2x + 7 – x – 7 =5

x = 5

Alter method:

The ages always have the same differences at all times.

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9. The ages of A and B are in the ratio 3:1. Twenty years hence, the ratio will be 2 : 1. Their present ages are .

a. 60 & 20
b. 30 & 40
c. 65 & 25
d. 50 & 20

Ans: a. 60 & 20
Explanation:

Let Present ages of 3x and x years.

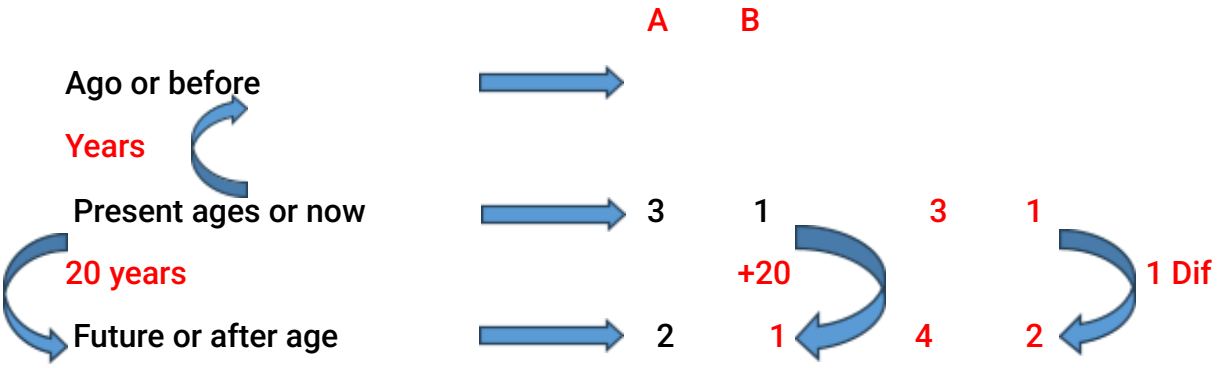
3x + 20/x+20 =2/1

3x +20= 2x+40

x= 20

Their present ages are 60 & 20.

Alter method



Dif	ages
I	20
3	60
1	20

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10. If the ratio of the ages of son and father in 2014 and 2022 are 1:4 and 3:8 respectively then the sum of the ages of son and father in 2010 is ____.

a. 42
b. 43
c. 50
d. 45

Ans: a. 42
Explanation:
In the year 2014: Son & Father ages be x and 4x.

x + 8/4x+8 =3/8

8x +64 = 12x+24

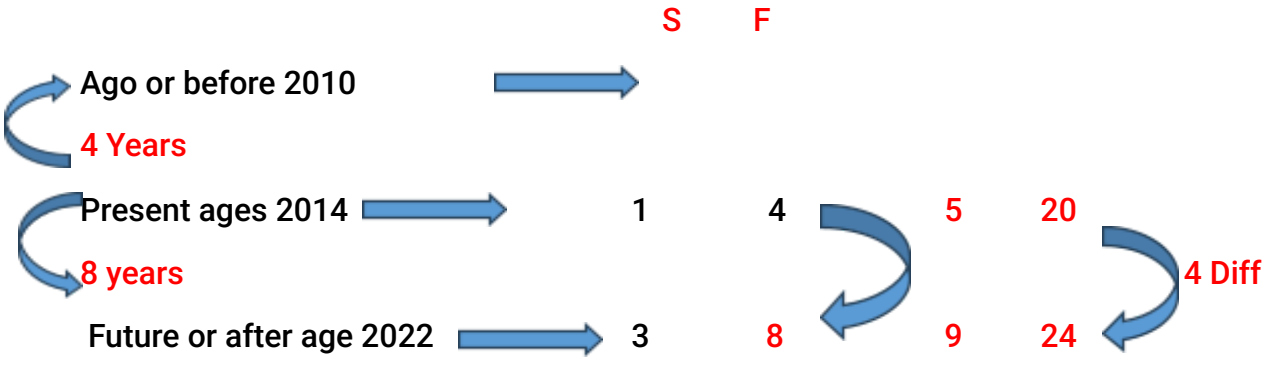
x= 10

2014: Son's ag = 10 & Father's age=40

2010: Son's age=6 & Father's age=36

Sum of their ages = 42 years.

Alter method



Diff	ages
4	8
25	50
S+F	50-8

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

a. 5 : 6
b. 7 : 8
c. 8 : 7
d. 14 : 13

Ans: c. 8 : 7

Explanation:

A's age (44 x 6/11)years

=24 years

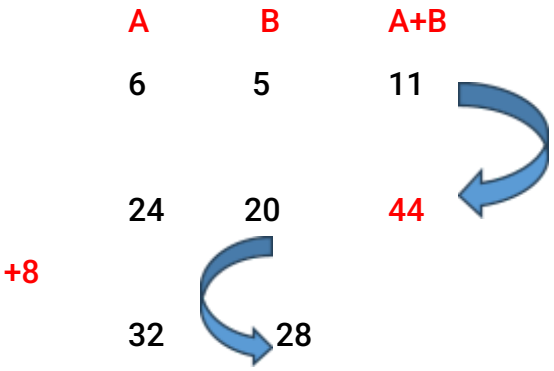
B's ages =(44-24)

=20years

Ratio of their ages after 8 years

(24+8)/ (20+8) = 8:7

Alter method



32:28

8 : 7

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12)The difference between the present ages of P and Q is 8 years and the ratio of their present age is 2:3 respectively. What is P's present age?

a. 16
b. 12
c. 24
d. 30

Ans: a. 16

Explanation:

The ratio of the present age P is 2x

The ratio of the present age Q is 3x

The difference between the present ages of P and Q is 8 years

1 part 8 years

P's present age 2 part is 16 years

Alter method

P	Q	P-Q
2	3	1
16		8

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13. A father said to his son, " Your age now is the same as my age 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. 24
c. 19
d. 38

Ans: a. 14

Explanation:

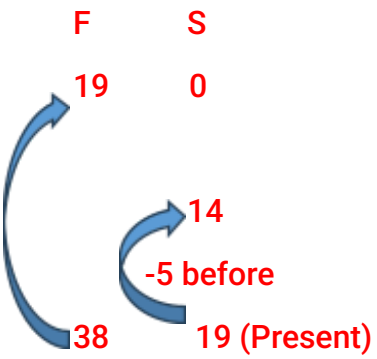
Let the son's present age be x years. Then, $(38 - x) = x$

$\Rightarrow 2x = 38.$

$\Rightarrow x = 19.$

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

Alter method



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14. Rishi is a 10 years old boy. If his mother is 20 years older than him and 6 years younger than his father, then what is his father's age?

a. 34 years
b. 26 years
c. 36 years
d. 30 years

Ans: c. 36 years

Explanation:
Rishi's age = 10 years; Rishi's mother age = 10+20=30 years

According to the question, 30 = Rishi's father age-6

30+6 = Rishi's father age

36 = Rishi's father age

15. The total age of the four persons is 86 years. What was their average age four years ago?

a. 20 years
b. 19.5 years
c. 17.5 years
d. 20.5 years

Ans: c. 17.5 years

Explanation:
The total age of four person = 86

Average age of four person = 21.5

Average age of four person 4 years ago is 21.5 - 4 = 17.5

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16. The sum of the age of four friends A, B, C and D is 70 years. What would be their total age after 5 years?

a. 85 years
b. 65 years
c. 90 years
d. 75 years

Ans: c. 90 years

Explanation:

Sum of four friends A, B, C and D = 70 years

After 5 years, their age of each of four friends will increase by 5. Therefore, the total increase in age = 5 X 4=20

Total sum of four friends after 5 years = 70+20 = 90 years

17. Gopal's age is the cube of a number. It was the square of a number 2 years ago. What is his age now?

a. 9 years
b. 62 years
c. 27 years
d. 64 years

Ans: c. 27 years

Explanation:

9 and 62 are not a perfect cube. 64 is a cube , but 2 years ago it would be (64-2)62, it is not a square value. Hence 27 is the correct answer.