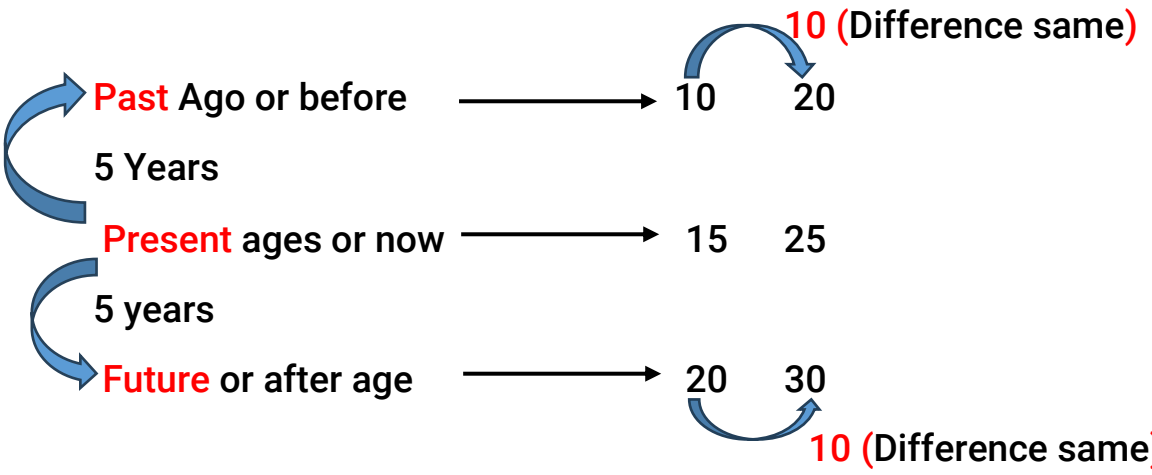
Name of the Bundle	PROFICIENT BUNDLE V2	Subject	APTITUDE
Topic	PROBLEM ON AGES	Last updated on	18 January 2024

Problem On Ages (Concepts)



1) The present age 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

Correct answer is option 'A'. Can you explain this answer?

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 old as 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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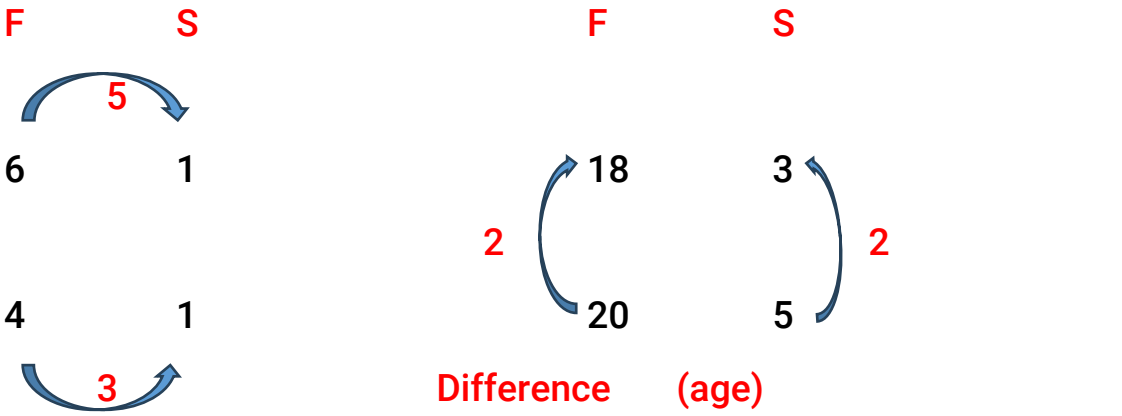
Alternate method



Difference	(age)	
2	4	⟶ Present ages
18	36(F)	
3	6 (S)	⟶ future age

F⟶ Father S⟶ Son

F & S (Present ages)

Ans: 36 & 6

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) None of these

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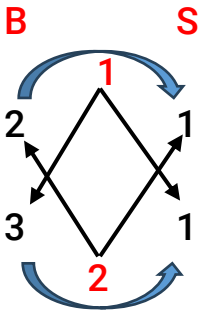
4) A boy is now twice as old as his sister, four years ago, he was thrice as old as her. What are their ages now?

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



Difference (age)
1 4 → Present ages
4 16(B)
2 8 (S) → future or after age

B→ Boy S→ Sister
Ans: B & S (Present ages) 16 & 8

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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)

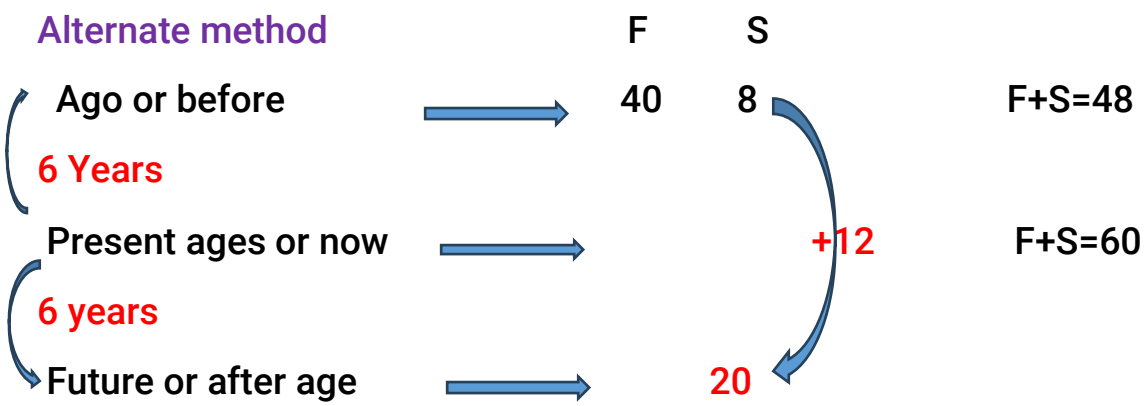
54 - x = 5x - 30

6x = 84 x = 14.

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

ANS: 20 years.

Alternate method



Ans: 20

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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

Ans: 10 : 7

Alternate 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 M⟶ Muthu K⟶ Karthi

Ans 10 : 7

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

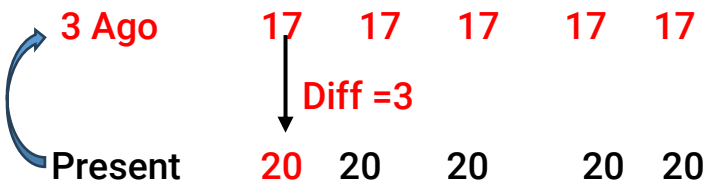
Born on new baby,

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

Alternate method



Average remains same as 17 (6 members family)

17 – 5 x 3 = 2 years

Ans: 2 years

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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

Ans: 5

Alternate method

The ages are always have same differences at all time.

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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:

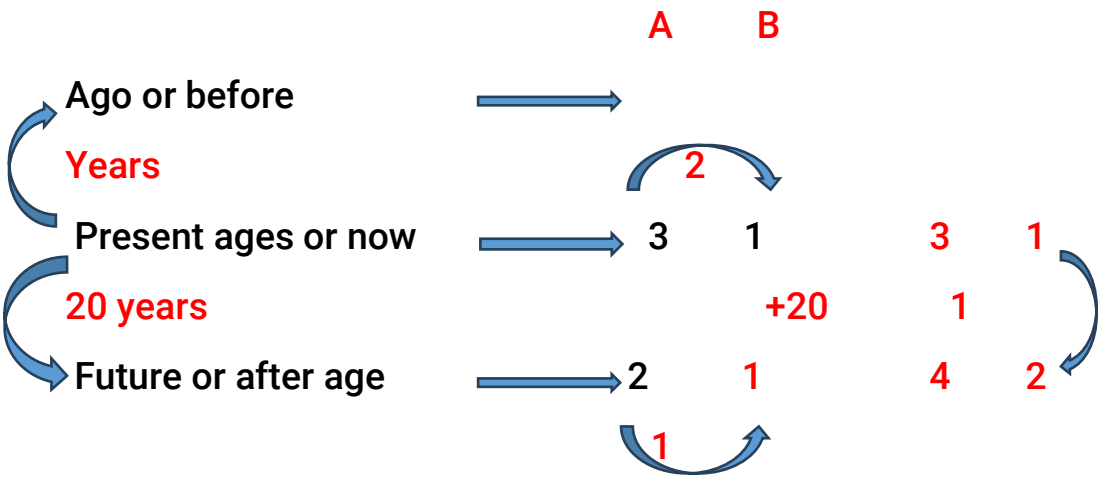
Let Present ages of 3x and x years.

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

3x +20= 2x+40

x= 20. Their present ages are 60 & 20.

Alternate method



Dif	ages
I	20
3	60
1	20

Ans: 60 &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

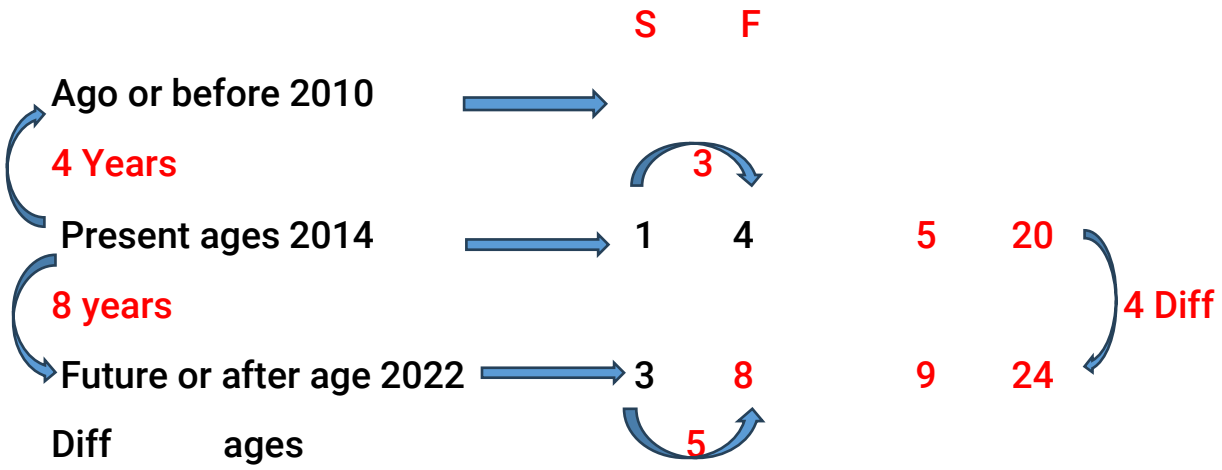
a) 42 b) 43 c) 50 d) 45

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.

Alternate method



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

Ans: 42

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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)

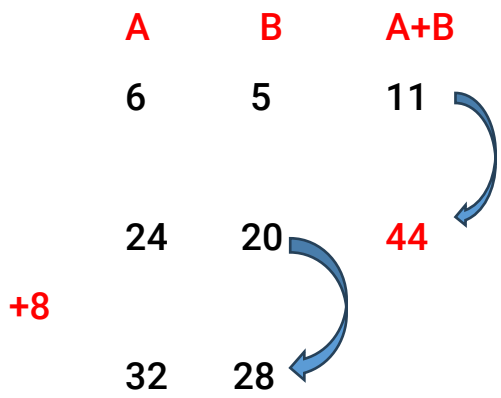
=20years

Ratio of their ages after 8 years

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

Ans: 8:7

Alternate method



Ans : 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

Alternate method

P	Q	P-Q
2	3	1
16		8

Ans: 16

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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

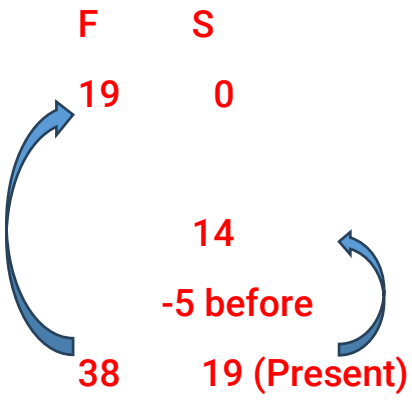
a) 14 b) 24 c) 19 d) 38

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.

Alternate method



Ans: 14