

Problem On Ages

Questions & Solution

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Problem On Ages Questions With Solution

1. A person's present age is two-ninth of the age of his mother. After 10 years, he will be four-eleventh of the age of his mother. How old is the mother after 15 years?

A) 48yrs
B) 60yrs
C) 55yrs
D) 53yrs
E) None

View Answer

Option B

Solution:

Present ratio P:M ==>2:9

After 10years P:M=4:11

Then

$$(2x+10)/(9x+10) = 4/11$$

$$22x+110=36x+40$$

$$X=5.$$

Then Mother's present age=9*5=45yrs.

After 15 yrs Mother's age is=60yrs.

2. Ratio of the ages of A and B is 5 : x. A is 18 years younger to C. After nine years C will be 47 years old. If the difference between the ages of A and B is same as the age of C, what is the value of x?

A) 13
B) 12
C) 14.5
D) 13.25
E) None

View Answer

Option C

Solution:

Given

$$A:B=5:x-1$$

$$A = C - 18 \text{ —2}$$

$$C + 9 = 47 \Rightarrow C=47-9=38\text{yrs.}$$

$$A - B = C \text{ —3}$$

$$\text{From 2 } A=38-18=20\text{yrs.}$$

$$\text{From 1 } 20/B=5/x \Rightarrow B=4x$$

From $34x - 20 = 38$

$X = 14.5$.

3. 16 years ago, my Uncle was 8 times older than me. After 8 years from today, my uncle will be thrice as old as I will be at that time. Eight years ago, what was the ratio of my age and my uncle's age?

- A) 11:53
- B) 13:45
- C) 8:29
- D) 5:32
- E) None

View Answer

Option A

Solution:

Let 16 yrs ago the age of mine was = x

$$(x+24)/(8x+24)=1/3$$

$$X=48/5=9.6$$

My present age is $9.6+16=25.6$

Present age of my Uncle = $8*9.6+16=92.8$

Required ratio = $(25.6-8)/(92.8-8) = 17.6/84.8 = 11:53$.

4. The sum of present ages of A and B is 11 times the difference of their ages. 5 years hence, their total ages will be 13 times the difference of their ages. What is the present age of elder one?

- A) 35yrs
- B) 20yrs
- C) 25yrs
- D) 30yrs
- E) None

View Answer

Option D

Solution:

$$A+B=11(A-B)$$

$$A:B=6:5$$

According to 2nd condition

$$6x+5x+10=13(6x-5x)=5$$

$$A's \text{ age} = 6*5=30.$$

5. The average age of a husband-wife and their son was 42 years. The son got married and exactly after 1 year a child was born to them. When the child became 5 years old, the average age of the family became 36 years. What was the age of bride at the time of marriage?

- A) 30yrs
- B) 27yrs

- C) 25yrs
- D) 22yrs
- E) None

View Answer

Option C

Solution:

$$F+M+S=42*3=126$$

$$\text{The age of family after 6 years} = 36*5=180$$

$$\text{The age of bride after 6 years} = 180 - (126 + 18 + 5)$$

$$= 180 - 149 = 31 \text{ yrs}$$

$$\text{Age of bride at the time of marriage} = 31 - 6 = 25 \text{ yrs.}$$

6. A says, "If you reverse my own age, the figures represent my Brother's age. He is, of course, senior to me and the difference between our ages is one-eleventh of their sum." Then A's brother's age is ?

- A) 45
- B) 54
- C) 25
- D) 52
- E) None

View Answer

Option B

Solution:

$$\text{From option } 54 - 45 = 1/11(45 + 54)$$

$$9 = 9$$

Condition satisfied.

7. L is as much younger than M as he is older than N. If the sum of the ages of M and N is 60 years, what is definitely the difference between M and L's age?

- A) 3yrs
- B) 2yrs
- C) 5yrs
- D) Can't be determined
- E) None

View Answer

Option D

Solution:

$$M - L = L - N$$

$$(M + N) = 2L$$

$$\text{Given } (M + N) = 60$$

$$\text{then } 2L = 60 \implies L = 30$$

But can't able to find M value
Therefore, cannot be determined.

8. If three times of the son's age in years is included to the mother's age, the total is 75 and if two times of the mother's age is included to the son's age, the total is 80. So the son's age is?

- A) 15yrs
- B) 18yrs
- C) 14yrs
- D) 22yrs
- E) None

View Answer

Option C

Solution:

Let daughter's age = A and mother's age = B

Given: $3A+B = 75$ and $A+2B = 80$

Solving A, we will get $A = 14$.

9. The ages of P, Q and R together are 57 years. Sis thrice as old as P and R is 12 years older than P. Then, the difference between ages Q and R is?

- A) 11yrs
- B) 6yrs
- C) 8yrs
- D) 4yrs
- E) None

View Answer

Option B

Solution:

Let P's age = X

R 12 yrs older than P so R's age = $x+12$

Q is thrice as old as P so Q's age = $3x$

$$x + (x+12) + 3x = 57$$

$$\Rightarrow 5x = 45$$

$$x = 9$$

$$\text{P's age} = 9$$

$$\text{Q's age} = 3x = 27$$

$$\text{R's age} = x+12 = 21$$

$$\text{Q-R} = 27-21 = 6\text{yrs.}$$

10. If 10 years are subtracted from the present age of Sharmi and the remainder is divided by 6, then the present age of his grandson Epsi is obtained. If Epsi is 2 years younger to Nove whose age is 7 years, then what is Sharmi's present age?

- A) 40yrs
- B) 35yrs

- C) 52yrs
- D) 55yrs
- E) None

View Answer

Option A

Solution:

Epsi age = $7 - 2 = 5$ yrs

Let Sharmi age be x years.

Then $(x - 10)/6 = 5$

$X = 40$

1. Father is aged three times more than his son Arun. After 8 years, he would be two and a half times of Arun's age. After further 8 years, how many times would he be of Arun's age?
- A) $2 \frac{1}{2}$
 - B) 2
 - C) 3
 - D) $3 \frac{1}{2}$
 - E) None

View Answer

Option B

Solution:

Let Arun's present age be x years. Then, father's present age = $(x + 3x)$ years = $4x$ years.

Then $(4x + 8) = \frac{5}{2}(x + 8)$

$8x + 16 = 5x + 40$

$3x = 24$

$X = 8$.

Required ratio, $(4x + 16)/(x + 16) = 48/24 = 2$.

2. In a family, a couple has a son and daughter. The age of the father is four times that of his daughter and the age of the son is half of his mother. The wife is ten years younger to her husband and the brother is six years older than his sister. What is the age of the mother?
- A) 34
 - B) 40
 - C) 38
 - D) 42
 - E) None

View Answer

Option A

Solution:

Let the daughter's age be x years.

Then, father's age = $4x$.

Mother's age = $4x - 10$; Son's age = $x + 6$.

So, $x + 6 = (4x - 10)/2 \implies x = 11$.

Therefore Mother's age = $4x - 10 = 44 - 10 = 34$ years.

3. Thomas's present age is three times his son's present age and half of his father's present age. The average of the present ages of all of them is $33 \frac{1}{3}$ years. What is the difference between the Thomas's son's present age and Thomas's father's present age?

- A) 45
- B) 55
- C) 50
- D) 40
- E) None

View Answer

Option C

Solution:

Present age of Thomas's son = x years

Thomas's present age = $3x$ years

Thomas's father's present age = $3x \times 2 = 6x$

$x + 3x + 6x = 33 \frac{1}{3} \times 3$

$10x = 100/3 \times 3 \implies x = 10$

Then diff between Thomas son's and father's age is

$60 - 10 = 50$ yrs

4. My brother is 3 years elder to me. My father was 28 years of age when my sister was born while my mother was 26 years of age when I was born. If my sister was 4 years of age when my brother was born, then what was the age of my father when my brother was born?

- A) 30
- B) 35
- C) 40
- D) 32
- E) None

View Answer

Option D

Solution:

Father's age was 28 years when my sister was born.

My sister's age was 4 years when my brother was born.

Therefore, father's age was $28 + 4 = 32$ years when my brother was born.

5. P is as much younger than Q and he is older than R. If the sum of the ages of Q and R is 60 years, what is definitely the difference between Q and P's age?

- A) 4
- B) 5
- C) 2
- D) Can't be determined
- E) None

View Answer

Option D

Solution:

Can't be determined

6. If 10 years are subtracted from the present age of Shyam and the remainder is divided by 7, then the present age of his grandson Santhosh is obtained. If Santhosh is 2 years younger to Madan whose age is 7 years, then what is Shyam's present age?

- A) 45
- B) 48
- C) 36
- D) 35
- E) None

View Answer

Option A

Solution:

Santhosh's age = $(7 - 2)$ years = 5 years.

Let Shyam's age be x years.

Then $(x-10)/7 = 5$

$X=45$ yrs.

7. A's age is 120% of what it was 15 years ago, But 75 % of what it will be after 15 years. What is his present age?

- A) 50
- B) 45
- C) 65
- D) 56
- E) None

View Answer

Option C

Solution:

120% of $(x-15) = 75\%$ of $(x+15)$

$$\begin{aligned}6/5(x-15) &= 3/4(x+15) \\8x(x-15) &= 5x(x+15) \\3x &= 195 \\x &= 65.\end{aligned}$$

8. The ratio of the ages of M and N is 6 : 5. The total of their ages is 7.7 decades. The proportion of their ages after 1.5 decades will be [1 Decade = 10 years]

- A) 43:55
- B) 50:57
- C) 44:47
- D) 57:50
- E) None

View Answer

Option D

Solution:

$$(6+5)11x = 77$$

$$x = 7$$

M's age = 42 years

and N's age = 35 years

$$\begin{aligned}\text{Proportion of their ages after 15 is} &= (42 + 15) : (35 + 15) \\&= 57 : 50\end{aligned}$$

9. The average age of a group of 10 students is 20 years. When 5 more students join the group, the average age increase by 2 year. The average age of the new students is?

- A) 24
- B) 26
- C) 25
- D) 28
- E) None

View Answer

Option B

Solution:

$$\text{Total age of 10 students} = (10 \times 20) = 200$$

$$\text{Total age of 15 students} = (15 \times 22) = 330$$

$$\text{Total age of 5 new students} = 330 - 200 = 130 \text{ years}$$

$$\text{Then average age of 5 new students} = 130/5 = 26 \text{ years}$$

10. The average age of a couple was 26 years at the time of marriage. After 11 years of marriage, the average age of the family with 3 children become 19 years. The average age of the children is

- A) 8
- B) 6

- C) 10
- D) 7
- E) None

View Answer

Option D

Solution:

The average age of a couple = 26 years.

Total age of couples = $26 \times 2 = 52$ years

Total age of couple after 11 years = $(52 + 2 \times 11) = 74$ years

If average age of 3 children after 11 years is $3x$ years.

$$(74 + 3x)/5 = 19$$

$$X = 7$$

The average age of children is 7 years.

1. If 10:13 is the ratio of present age of A and B respectively and 8:15 is the ratio between A's age 10 years ago and B's age 10 years hence. Then what will be the ratio of A's age 10 years hence and B's age 10 years ago ?
- A) 12:11
 - B) 12:15
 - C) 8:11
 - D) 6:8
 - E) None

View Answer

Option A

Solution:

Present age of A and B is $10x$ and $13x$.

$$\text{Then } 10x - 10 / 13x + 10 = 8 / 15$$

$$46x = 230 \implies x = 5$$

So Required ratio is $60:55 = 12:11$

2. Shyam's present age is $3/10$ of his father's present age. Shyam's brother is 4 years older than him. The ratio between the present age of Shyam's father and Shyam's brother is 5:2. What is Shyam's present age?
- A) 6 years
 - B) 12 years
 - C) 15 years
 - D) 16 years
 - E) None

View Answer**Option B****Solution:**

S: S's F == 3:10 (bcos S is 3/10 of father's age)

S's F: S's B = 5:2

Then S: S's F : S's B = 3:10

5: 2 ==> 15:50:20 = 3:10:4

Diff S and S's B is 4 then ratio diff (4-3)1....4

3 ? == 12 years

3. 3. In a family, a couple has a son and daughter. The age of the father is five times that of his daughter and the age of the son is half of his mother. The wife is ten years younger to her husband and the brother is ten years older than his sister. What is the age of the mother?

A) 40 years

B) 45 years

C) 50 years

D) 65 years

E) None

View Answer**Option A****Solution:**

Let the mother's age be x.

Father's age x+10

Son's age x/2

Daughter's age x/2-10.

Now, Father's age is % times of Daughter's age

 $x+10=5(x/2-10) \Rightarrow x=40$ yrs.

4. If the ages of A and C are added to twice the age of B, the total becomes 59. If the ages of B and C are added to thrice the age of A, the total becomes 68 and if the age of A is added to thrice the age of B and thrice the age of C, the total becomes 108. What is the age of A?

A) 18 years

B) 15 years

C) 12 years

D) 20 years

E) None

View Answer**Option C****Solution:** $A+C+2B=59-1$ $B+C+3A=68-2$ $A+3B+3C=108-3$

Multiply eqn 2 by 3 and subtract 3
 $(3B+3C+9A=204) - (A+3B+3C=108)$
 $9A-A=204-108=96$
 $A=12$ yrs.

5. The respective ratio between the present age of A and B is 5 : x. A is 2 years younger than C. C's age after 8 years will be 30 years. The difference between A's and B's age is same as the present age of C. What is the value of x?

- A) 8
- B) 10
- C) 12
- D) 6
- E) None

View Answer

Option D

Solution:

C's age after 8 years = 30 years

C's present age = $30 - 8 = 22$ years

A's present age = $22 - 2 = 20$ years

B's present age = $20 + 22 = 42$ years

Ratio between A and B = $20 : 42 \implies 5:6$

6. Meena married 10 years ago. Today her age is $\frac{7}{5}$ times her age at the time of her marriage. Her daughter age is $\frac{1}{5}$ of her age. What is the ratio of Meena's age to her daughter age after 5 years?

- A) 10:3
- B) 10:13
- C) 8:11
- D) 5:9
- E) None

View Answer

Option A

Solution:

Let's Meena's age be x

$X = \frac{7}{5} * (x - 10) \implies x = 35$.

And her daughter's age $\frac{35}{5} = 7$.

After 5 yrs M:D = $40:12 \implies 10:3$

7. Father is aged three times more than his son kavin. After 8 years, he would be two and a half times of kavin's age. After further 8 years, how many times would he be of

kavin's age?

- A) 4
- B) 5
- C) 2
- D) 3
- E) None

View Answer

Option C

Solution:

Assume that kavin's present age = x .

Then, father's present age = $3x + x = 4x$

After 8 years, father's age = $2\frac{1}{2}$ times of kavin's age.

$$(4x + 8) = 2\frac{1}{2}(x + 8) \implies 3x = 24$$

$$x = 8.$$

Then x kavin's age = 8, her father's age $4 \times 8 = 32$.

After $8 + 8 = 16$ yrs. their ages are 24 and 48.

It is 2 times.

8. Mr. X has three sons namely P, Q and R. P is the eldest son of Mr. X while R is the youngest one. The present ages of all three of them are square numbers. The sum of their ages after 5 years is 44. What is the age of P after three years?

- A) 15 years
- B) 13 years
- C) 19 years
- D) 17 years
- E) None

View Answer

Option C

Solution:

Square numbers – x, y, z

$$(x + 5) + (y + 5) + (z + 5) = 44$$

$$x + y + z = 44 - 15 = 29$$

Possible values of $x, y, z = 4, 9, 16$ [Out of 1, 4, 9, 16, 25] P's present age = 16; after three years = 19

9. Three years ago the average age of Ramesh's family having 5 members was 17 years. Ramesh becomes father but the average age of his family is same today. What is the present age of baby?

- A) 1 year
- B) 2 years

- C) 3 years
- D) 4 years
- E) None

View Answer

Option B

Solution:

The age of 5 members 3 years ago = $17 \times 5 = 85$ years

Total age of 5 members at present = $85 + (5 \times 3) = 100$ years

Total age of 6 members at present = $17 \times 6 = 102$ years...

(as average is same at present so we took 17)

Hence, age of baby = $102 - 100 = 2$ years

10. The ratio between the present ages of A and B is 6:7. If B is 4 years old than A, what will be the ratio of the ages of A and after 4 years.
- A) 7:8
 - B) 7:9
 - C) 8:9
 - D) 6:5
 - E) None

View Answer

Option A

Solution:

Let A age and B age is $6x$ years and $7x$ years.

Then $7x - 6x = 4 \Rightarrow x = 4$

So required ratio will be $(6x+4) : (7x+4) \Rightarrow 28:32 \Rightarrow 7:8$

1. Four years ago the ratio of ages of A & B was 3 : 5 and five year hence the ratio will become 6:8. Find the present age of A?
- A) 15yrs
 - B) 13yrs
 - C) 16yrs
 - D) 17yrs
 - E) 18yrs

View Answer

Option A

Solution:

. A.....B

4yr ago 3.....5
 Present +3 +3
 5yr after 6.....8
 So total 9 years
 So 3 = 9
 1 = 3
 A's age 4yrs ago = 9
 A's present age = 9+4 = 13

2. Six year ago the ratio of ages of A & B was 1:3 and after six year the ratio becomes 2:3. Find the sum of present ages of A & B.

- A) 24
 B) 26
 C) 28
 D) 30

View Answer

Option C

Solution:

. A.....B
 6yr ago 1.....3
 Present +1 +0
 6yr after 2.....3

First of all we have to make same difference. So their difference will be multiplied with each other.

. A.....B
 . 1.....3
 . +3 +3
 . 4.....6

Now difference is same... 3 = 12

So 1 = 4

Present ages of A and B are 4+6= 10, 12+6= 18

Sum = 10+18 = 28

3. The present ratio of ages of A & B is 11:12 and the ratio of ages of A's 2yr back and B's 6yr after is 2:3. Find age of A 6yr after?

- A) 28yr
 B) 30yr
 C) 26yr
 D) 36yr

View Answer

Option A

Solution:

A/B = 11/12(1)

(A-2)/(B+6) = 2/3.....(2)

By solving above equation we will get $A = 22$

So age of A 6yr after = $22+6 = 28$ yr

4. The average of 20 students class is 21. If the age of teacher is included then average increase by 2yr. Find age of teacher?

- A) 60yr
- B) 63yr
- C) 66yr
- D) 61yr

View Answer

Option B

Solution:

If the age of teacher is 21 then average remains unchanged but due to increase by 2yr, it means teacher gave 2yr to everyone($20+1 = 21$)

$$21 + (21 \times 2)$$

$$21 + 42 = 63 \text{ yr}$$

5. Sita's present age is $1\frac{2}{5}$ times of her age at the time of marriage. She married 10yr ago. Now she has a son whose age is 1 more than $\frac{1}{5}$ th of her age at the time of marriage. Find the age of son?

- A) 3yr
- B) 4yr
- C) 5yr
- D) 6yr

View Answer

Option D

Solution:

Sita's present age

Sita's marriage age

$$7$$

$$5$$

$$+2$$

$$2 = 10$$

$$1 = 5$$

$$5 = 25 \text{ yr}$$

Now Sita's son age is 1 more than $\frac{1}{5}$ th of her marriage time age.

$$1 + 25/5 = 6 \text{ yr}$$

6. The ratio of father and son's age is 7:4. The product of their ages is 2800. The ratio of their ages after 2yr will be ?

- A) 7:12
- B) 12:7
- C) 3:5
- D) 5:3

View Answer

Option B

Solution:

Sol : let their age is $7x$ and $4x$

Product = $28x^2 = 2800$

$x^2 = 100$

$x = 10$

Their ages = $70 : 40$

2yrs after = $72 : 42$

$12 : 7$

7. The sum of the ages of father and son is 45yrs. Five years ago the product of their ages was 4 times the father's age at that time the present ages of father & son are ?

A) 39,6

B) 35,10

C) 36,9

D) 40,10

View Answer

Option C

Solution:

$F + S = 45$

5yr ago $F + S = 35$

A.T.Q = $F * S = 4 * F$

$S = 4yr$

$F = 31yr$

Present age = $31+5 = 36yr$

$4+5 = 9 yr$

8. The ratio between the ages of father & son at present is 7:3. 4yr hence the ratio between son & his mother will be 1:2. Find the ratio of the present ages of father & mother?

A) 3:4

B) 5:4

C) 4:3

D) Can't determined

E) None of these

View Answer

Option D

Solution:

Let age of father & son $7x, 3x$

4yr hence, son's age = $3x+4$

Ratio of ages of son & mother ... $3x+4 : M = 1:2$

$M = 6x+8$

$$F + M = 7x : 6x+4$$

We can't find value of x. so ans is D.

9. Three years ago the father was 7times as old as his son. Three year hence the father's age would be 4times that of his son. Find present ages of father and son?

- A) 25yr
- B) 35yr
- C) 45yr
- D) 55yr

View Answer

Option C

Solution:

.	F : S	
3yr ago	7 : 1(1)
Present	-3	+0
3yrs after	4 : 1(2)

We have to Make difference same.

Equation (1) * 3 equation (2) * 6

.	F.....S
.	21..... 3
.	24.....6

Now difference 24-21 =3, 6-3 = 3 is same.

$$3 = 6$$

$$1 = 2$$

$$21 = 42$$

$$\text{Present age} = 42+3 = 45 \text{ yr}$$

10. Mikesh was thrice as old as ajay 20 yrs back. How old is ajay today, if mikesh will be 50 yrs old 10 year hence?

- A) 20yr
- B) 30yr
- C) 40yr
- D) 50yr

View Answer

Option B

Solution:

$$\text{Mikesh's present age} = 50-10 = 40\text{yr}$$

$$20 \text{ yrs back from now mikesh age} = 20\text{yr}$$

$$\text{Ajay is half} = 10\text{yr}$$

$$\text{Now ajay age} = 10+20 = 30\text{yr.}$$

1. Ratio of present age of A and B is 7 : 9 and ratio of ages of A 5 years back and age of B 5 years later is 3:5. Find the present age of B.
- A) 35 years
B) 45 years
C) 30 years
D) 50 years
E) 40 years

View Answer

Option B

Solution:

$$A/B=7/9$$

$$(A-5)/(B+5)=3/5$$

solve both and get A=35 and B=45

2. 5 years ago the ratio of ages of A and B are 5:7 and 10 years hence from now ratio will become 4:5. Find the average of present age of A and B.
- A) 30 years
B) 40 years
C) 35 years
D) 45 years
E) None of these

View Answer

Option C

Solution:

$$\frac{\text{A}}{\text{B}} = \frac{5}{7}$$

$$5 \text{ years ago } \frac{\text{A}-5}{\text{B}-5} = \frac{5}{7}$$

$$10 \text{ years hence } \frac{\text{A}+10}{\text{B}+10} = \frac{4}{5}$$

$$\text{Difference} = \frac{\text{A}-5}{\text{B}-5} - \frac{\text{A}+10}{\text{B}+10} = \frac{5}{7} - \frac{4}{5}$$

to make these two difference equal multiply the second equation with (7-5)=2

So we get

$$\frac{\text{A}-5}{\text{B}-5} = \frac{\text{A}+10}{\text{B}+10}$$

$$5 \text{ years ago } \frac{\text{A}-5}{\text{B}-5} = \frac{\text{A}+10}{\text{B}+10}$$

$$10 \text{ years hence } \frac{\text{A}+10}{\text{B}+10} = \frac{\text{A}+10}{\text{B}+10}$$

$$\text{Difference} = \frac{\text{A}-5}{\text{B}-5} - \frac{\text{A}+10}{\text{B}+10} = \frac{5}{7} - \frac{4}{5}$$

$$3=15 \text{ years (5 ago + 10 hence)}$$

$$1=5 \text{ years}$$

$$\Rightarrow 5 = 25 \text{ years (5 years ago of A)}$$

$$\Rightarrow 7=35 \text{ years (5 years ago of B)}$$

$$\text{Hence } A=25+5=30$$

$$B=35+5=40 \text{ years}$$

$$\text{Avg} = 70/2 = 35$$

3. The present age of a son is 40% of his father age. And the age of his mother is 220% of his age. The average age of three members is 38. Find the present age of mother.

- A) 50 years
- B) 22 years
- C) 10 years
- D) 44 years
- E) None of these

View Answer

Option D

Solution:

Son= 40% of father.

F:S=5:2

Mother=220% of son=11/5

M:S=11:5

make F:M:S =25:22:10

avg=(25+22+10)/3=19

19=38

1=2

=>22=44

4. Rama got married 8 years ago. Her present age is $1\frac{1}{3}$ times of her age at the time of marriage. She has a son who is one eighth of her present age. Then find the age of her son.

- A) 4 years
- B) 3 years
- C) 2 years
- D) 5 years
- E) None of these

View Answer

Option A

Solution:

$1\frac{1}{3}=4/3$

Ratio of present age of Rama and her age at time of marriage=4:3 ——— difference =1

1=8 years

4=32

age of son=32/8=4 years

5. A says to B "I am thrice as old as you are when I was as old as you were". If age of B is 20 years find the age of A

- A) 60 years
- B) 30 years

- C) 45 years
- D) 36 years
- E) None of these

View Answer

Option B

Solution:

A B

3x y

y x

$3x - y = y - x$ (difference is same)

$4x = 2y$

$x/y = 1/2$

$2 = 20$

$1 = 10$

$3x = 30$

6. The fathers age is four times as much as the sum of the age of his three children but 6 years hence his age will be thrice as the sum of their age. The present age of father is?

- A) 60 years
- B) 54 years
- C) 42 years
- D) 48 years
- E) None of these

View Answer

Option D

Solution:

Let sum of children age = x ; hence father = $4x$

$(4x+6)/x+6 = 3/1$

$x=12$;

father=48

7. In a class of 20 students the average of all the students is 18 years. If the age of their teacher is added then the average becomes 19 years. Find the age of teacher after 5 year.

- A) 44 years
- B) 39 years
- C) 43 years
- D) 38 years
- E) None of these

View Answer**Option A****Solution:**Let age of teacher= x

(total age)/ total people=19

$$360+x/21=19$$

$$x=39$$

hence age after 5 years=44

8. In a family there are 5 brothers in a gap of 2 years. If their average age is 22 find the sum of eldest and youngest brother.

A) 42 years

B) 40 years

C) 38 years

D) 44 years

E) None of these

View Answer**Option D****Solution:**

44

difference is same, hence 22 i.e is average is the age of middle son i.e

18,20,22,24,26 : age of 5 son

$$18+26=44$$

9. Four years ago the ratio of ages of A and B is 3:5. After four years from now the ratio will be 5:7. Then find the ratio of their present age.

A) 5:7

B) 5:3

C) 2:3

D) 7:5

E) None of these

View Answer**Option C****Solution:**

	A	B
4 years ago	= 3	5
4 years after	= 5	7
Difference	= 2	2

$$2=8 \text{ (4 ago + 4 hence)}$$

$$1=4$$

$$\text{present age A} = 3 \times 4 + 4 = 16$$

$$\text{B} = 5 \times 4 + 4 = 24$$

$$16/24=2:3$$

10. The average age of a couple at the time of their marriage was 22. Two years after the marriage their child was born. Now he is 4 years old. Find the average age of their present age.

- A) 24 years
- B) 22 years
- C) 18 years
- D) 20 years
- E) None of these

View Answer

Option D

Solution:

Sum of couples age at time of marriage = $2 \times 22 = 44$

when son was born, total age = $44 + 2 + 2 = 48$

After 4 years total age = $48 + 4 + 4 + 4 = 60$

avg = $60/3 = 20$

1. The present age of Sumit is $\frac{1}{8}$ of his father. After 4 years, the father's age will be twice the age of Raman. If Raman celebrated his 6th birthday eight years ago, what is Sumit's present age?

- A) 4
- B) 6
- C) 5
- D) 8
- E) None of these

View Answer

Option A

Solution:

Present ratio Sumit : Father is 1 : 8..... (1)

4 years after, Father : Raman is 2 : 1.....(2)

Raman's 6th birthday was 8 years ago, so after 4 years he will be 18 years old

Put in equation (2), Raman = 18, Father = 36

So present age of father = 32

So of Sumit is $32/8 = 4$ years

2. Sita's present age is five times of her daughter's age and $\frac{1}{3}$ of her father's age. If the average age of all the three is 28 years, then find the difference between Sita's daughter's age and her father's age.

- A) 50
- B) 40

- C) 56
- D) 55
- E) 62

View Answer

Option C

Solution:

Sita : Daughter = 5 : 1

Sita : Father = 1 : 3 or 5 : 15

Total age of 3 = 1 + 5 + 15 = 21

So average = $21/3 = 7$

7.....28

1.....4

Sita's daughter = 4

So her father's = 60

Difference = 56 years

3. Sheetal's age at the time of her marriage was $\frac{4}{5}$ of her present age. If she married 6 years ago and now she has a son who is $\frac{1}{10}$ of her present age, then find the age of her son 5 years hence.

- A) 3
- B) 8
- C) 9
- D) 10
- E) 12

View Answer

Option D

Solution:

$\frac{4}{5} * 6 = 24/30$

24 => at the time of marriage

30 years => now

Son = $\frac{1}{10}$ of present age = $\frac{1}{10} * 30 = 3$ years

5 years hence = $3+5 = 8$ years

4. Ram is 6 years elder than his brother and 5 years younger than her sister Sheena. When Sheena was born, her father's age was 24 and when Ram's brother was born his mother's age was 29. Find the difference between ages of Ram's father and his mother.

- A) 10
- B) 8
- C) 6
- D) Cannot be determined
- E) None of these

View Answer**Option C****Solution:**Bother= x Ram= $x+6$ Sheena= $x+11$ Father= $x+11+24=x+35$ Mother= $x+29$ Difference= $x+35 - (x+29)=6$ years

5. When a couple was married, their average age was 22 years. When their first child was born, the average age of all the three became 16 years. When their second child was born, the average of all 4 became 15 years. Find the average age of couple at the time when their second child was born.

- A) 20
- B) 28
- C) 30
- D) 32
- E) 25

View Answer**Option B****Solution:**At the time of marriage total age of couple= 44 when 1st child is born total age of three= $16 \times 3=48$ Difference= $48-44=4$ years (Child is of 0 years hence this is the sum of age increase of couple)When second child is born sum of age= $4 \times 15=60$ years \Rightarrow increase of 12 years after first child, means age of husband, wife and first child increased by 4 years each. SO increase in husband and wife total age = 8 yearstotal increase = $4+8=12$ total age= $44+12=56$; average= $56/2=28$ years

6. Five years ago, the ratio of ages of A and B was 5 : 3 and five years hence from now, the ratio will become 7 : 5. Find the average of their present ages.

- A) 15
- B) 18
- C) 21
- D) 25
- E) 24

View Answer

Option D**Solution:**

_____A_____B

5 years ago—5—3

.....—7—5

In both case increase of 2 years $7-5=2$ and $5-3=2$

hence this increase of 2 years is for 10 years

$\Rightarrow 1=5$

hence $A=5*5+5=30$

$B=3*5+5=20$

Average=25

7. Four years ago, the ratio of ages of Vishal and Devansh was 3 : 5. Four years from now, the respective ratio will become 2 : 3. What is the ratio of age of Vishal 4 years ago and Devansh's present age?

- A) 4 : 5
- B) 1 : 2
- C) 6 : 11
- D) 3 : 4
- E) 9 : 13

View Answer**Option C****Solution:**

_____V_____D

4 years ago —3—5 ———(eq 1)

4 years hence—2—3 ———(eq 2)

Difference of V= $3-2=1$; Difference of D= $5-3=2$

to make this difference equal multiply eq 2, by 2 we get

_____V_____D

4 years ago —3—5 ———(eq 1)

4 years hence—4—6 ———(eq 2)

difference = 1 in both case

This is for 8 years $\Rightarrow 1= 8$ years

$V=3*8=24$ (4 years ago)

$D=5*8=40$ (4 years ago)

ratio $=24/40=6:10$

8. The average age of 10 men increased by 1 when two men of age 25 and 27 years are replaced by 2 other men. Find the average age of new men.

- A) 31
- B) 30
- C) 26
- D) 33
- E) 28

View Answer

Option A

Solution:

Sum of age of leaving person=52

total increase of age= $10 \times 1 = 10$ years

increased total age due to addition of two men= $52 + 10 = 62$; Avg=31

9. The average age of a group of 20 men is 22 years. If two men whose age are 24 and 31 years respectively join the group, the average age of new group increase or decrease by

- A) No increment , no decrement
- B) increase by 0.5 year
- C) decrease by 0.5 year
- D) increase by 1 year
- E) decrease by 1 year

View Answer

Option B

Solution:

When 2 new people join if the sum of their age is 44 then the average will not change, but the sum of age of new people is 55 i.e increase of 11 hence avg increases by $11/22 = 0.5$ years.

10. The ratio of present age of Tiya and Piya is 3 : 5 and the ratio of ages of Tiya 5 years ago and Piya 5 years hence is 1 : 3. Find the present age of Piya.

- A) 10
- B) 25
- C) 15
- D) 30
- E) 31

View Answer

Option B

Solution:

$$T/P = 3/5 \text{ ——— (i)}$$

$$T-5/P+5 = 1/3 \text{ ——— (ii)}$$

Solve and get

T=15 years

P= 25 years

1. Four times the difference in ages of C and A is one more than the age of B. Percentage of A's age to C's age is 75%. If ratio of B's age 5 years hence to C's age 1 year ago is 4 : 3. Find the average of ages A and C.
- A) 20
B) 19
C) 12
D) 14
E) 8

Answer

Option D

Solution:

$$4(C-A) = B + 1$$

$$A/C * 100 = 75$$

$$(B+5)/(C-1) = 4/3$$

Solve

$$A = 12, C = 16$$

2. 10 years ago daughter's age was two-fifth of her mother's age that time. While 10 years hence her age will be three-fifth of her mother's age then. Find the difference in the ages of the two.
- A) 24
B) 19
C) 26
D) 38
E) 16

Answer

Option A

Solution:

$$(x-10) = 2/5 (y-10)$$

$$(x+10) = 3/5 (y+10)$$

Solve, $x = 26$ and $y = 50$

3. B is as much younger than C as he is elder than A. Ratio of ages of A to C is 5 : 9. If B's age after 10 years will be 24, find the average of all of their present ages.
- A) 15
B) 16
C) 14
D) 22
E) 19

Answer

Option C**Solution:**

B's present age = $24 - 10 = 14$

So C' age = $14 + x$

And A' age = $14 - x$

$(14 + x) / (14 - x) = 9/5$

Solve, $x = 4$

So average age = $(10 + 14 + 18) / 3 = 14$ years

4. Kaira is 4 years younger to his brother. Her father was 30 years old when her sister was born while her mother was 30 years old when she was born. If her sister was 4 years old when their brother was born, find the age of her father when her mother was born.

- A) 11
- B) 12
- C) 4
- D) 10
- E) 8

View Answer**Option E****Solution:**

When Kaira was born:

Mother was 30.

She is 4 years younger to her brother, so brother was 4 years old.

Sister was 4 years old when brother was born, so sister is 4 years elder to brother, so sister was 8 years old.

Father was 30 when sister was born, so father is 30 years elder to sister, so father was $30 + 8 = 38$ years old.

Now when Kaira was born, mother was 30 and father was 38

So difference in their ages is 8 years. So when mother was born, father was 8.

5. 6 years ago, three times the age of B was 2 more than the age of A that time. 6 years hence, twice age of B will be equal to A's age that time. Find the total of their ages.

- A) 48
- B) 66
- C) 56
- D) 65
- E) 60

View Answer**Option B****Solution:**

$$3 * (B - 6) = 2 + (A - 6)$$

$$2 * (B+6) = A + 6$$

Solve, $A = 46$, $B = 20$

6. If 6 years are subtracted from the present age of Babita and the remainder is divided by 18, then the present age of her granddaughter Geeta is obtained. If Geeta is 2 years younger to Sita whose age is 5 years, then what is Babita's present age?

- A) 77
- B) 65
- C) 84
- D) 43
- E) 79

Answer

Option A

Solution:

Geeta's age = $(5-2) = 3$ years

Let age of Babita = x years

So $(x-6)/18 = 3$

Solve, $x = 60$

7. A's age is twice C's age. Ratio of age of B 2 years hence to age of C 2 years ago is 5 : 2. C is 14 years younger than D. Difference in ages of D and A is 4 years. Find the average of their ages.

- A) 36
- B) 25
- C) 27
- D) 13
- E) 18

View Answer

Option E

Solution:

$A = 2C$

$(B+2)/(C-2) = 5/2$

$C = D - 14$

$D - A = 4$

Solve, $A = 20$, $B = 18$, $C = 10$, $D = 24$

8. When the couple was married the average of their ages was 25 years. When their first child was born, the average age of family became 18 years. When their second child was born, the average age of the family became 15 years. Find the average age of the couple now.

- A) 31
- B) 27
- C) 28

- D) 29
E) 30

Answer

Option D

Solution:

Sum of ages of couple = $25 \times 2 = 50$

When 1st child born, total age of 3 = $18 \times 3 = 54$ years

At this time the child's age was 0, so age of father and mother would have increased by same. So increased by 2 years each. So $50 + 2 + 2 = 54$

Now when 2nd child born, total age of 4 = $15 \times 4 = 60$

So this time second child's age = 0 and age of father, mother and first child would have increased by same. So increased by 2 each such that $54 + 2 + 2 + 2 = 60$

So now this time (after 4 years from age 50), total age of couple is $50 + 4 + 4 = 58$

So average = 29 years

9. Ratio of age of A to B is 3 : 2 and that of A to C is 1 : 2. Difference in ages of B and C is 24 years. Find the average of their present ages.
- A) 24
B) 22
C) 14
D) 26
E) 31

Answer

Option B

Solution:

$B/A = 2/3$ and $A/C = 1/2$

So $B : A : C = 2 \times 1 : 3 \times 1 : 3 \times 2 = 2 : 3 : 6$

So $6x - 2x = 24$, $4x = 24$, $x = 6$

So total of their present ages = $(2+3+6) \times 6$. So average = $(2+3+6) \times 6 / 3 = 22$ years

10. Ratio of ages of A 5 years hence to B's age 3 years ago is 5 : 3. Also ratio of ages of A 4 years ago to B's age 2 years hence is 4 : 5. Find the age of the elder.
- A) 15
B) 18
C) 21
D) 20
E) 24

Answer

Option D

Solution:

$(A+5)/(B-3) = 5/3$

$(A-4)/(B+2) = 4/5$

Solve $A = 20$, $B = 18$

1. The ratio of ages of Sneha to Bhavna is 6 : 13. Also ratio between Kritika's age two years after and Bhavna's age 4 years after will be 2 : 3. If the average age of Sneha and Kritika is 15 years, what will be Kritika's age three years hence?
- A) 23
B) 19
C) 12
D) 15
E) 8

Answer

Option D

Solution:

$$S/B = 6/13$$

$$(K+2)/(B+4) = 2/3$$

$$S + K = 2 \times 15 = 30$$

Solve the equations, $K = 12$, So $K + 3 = 15$

2. Difference between ages of Raman and Preet is 16 years. If Raman's age ten years hence will be two times the age of Preet, find Raman's age.
- A) 26
B) 19
C) 42
D) 38
E) 46

View Answer

Option C

Solution:

$$R - P = 16$$

$$(R + 10) = 2P$$

Solve, $R = 42$

3. Three years ago, Pihu was thrice old as Ravi that time. How old is Pihu today if ratio of age of Pihu six years hence to Ravi's age four years ago is 9 : 2?
- A) 25
B) 30
C) 33
D) 22
E) 28

View Answer

Option B**Solution:**

$$(P - 3) = 3 * (R - 3)$$

$$(P + 6)/(R - 4) = 9/2$$

Solve both equations, $P = 30$

4. The average age of Yogita, Kanika and Prachi is 14 years. The ratio of Yogita's age one year ago to Kanika's age one year hence to Prachi's age three years hence is 5 : 6 : 4. Find ratio of Yogita's age two years hence to Prachi's age.

- A) 8 : 5
- B) 5 : 3
- C) 1 : 4
- D) 2 : 1
- E) 4 : 7

Answer**Option D****Solution:**

$$Y + K + P = 42$$

$$(Y - 1) : (K + 1) : (P + 3) = 5 : 6 : 4$$

$$\text{So } (5x + 1) + (6x - 1) + (4x - 3) = 42$$

$$\text{Solve, } x = 3$$

$$\text{So Yogita's age 1 ago hence} = 5x = 15, \text{ so present age} = 16$$

$$\text{Prachi's age 3 years hence} = 4x = 12, \text{ so present age} = 9$$

$$\text{So } (Y+2)/P = 18/9 = 2/1$$

5. Sneha's mother's age is five years more than twice the age of Sneha. When Sneha was born, her brother Rahul was four years old and her father two years older than her mother. If the average age of her mother and father is 46 years. Find the ratio of age of Rahul to that of Sneha.

- A) 3 : 7
- B) 7 : 4
- C) 6 : 5
- D) 8 : 11
- E) 3 : 10

Answer**Option C****Solution:**

$$\text{Let age of Sneha} = x, \text{ So age of Mother} = 2x+5, \text{ Rahul} = x+4, \text{ Father} = 2x+7$$

$$(2x+5 + 2x+7) = 2*46$$

$$\text{So } x = 20$$

$$\text{So } (x+4)/x = 24/20 = 6/5$$

6. Ratio of ages of Reena and Prerna is 2 : 3 and the ratio of ages of Tiya and Reena is 3 : 1. If the ratio of age of Prerna four years hence to age of Tiya three years hence is 5 : 9, what is the total of the ages of all three?

- A) 77
- B) 65
- C) 84
- D) 43
- E) 79

View Answer

Option A

Solution:

$$P/R = 3/2 \text{ and } R/T = 1/3$$

$$\text{So } P : R : T =$$

$$3 \times 1 : 2 \times 1 : 2 \times 3 = 3 : 2 : 6$$

$$\text{Now } (3x+4)/(6x+3) = 5/9$$

$$\text{So } x = 7$$

$$P = 3x = 21, R = 2x = 14, T = 6x = 42$$

$$\text{So } P + R + T = 77$$

7. Richa's age is thrice of Tisha's age while Megha's age is 3 less than that of Richa's. The ratio of ages of Tisha's three years hence to Megha's four years ago is 3 : 5. What is the square root of the total age of Tisha and Richa?

- A) 36
- B) 25
- C) 6
- D) 13
- E) 18

Answer

Option C

Solution:

$$\text{Tisha} = x, \text{ Richa} = 3x, \text{ Megha} = 3x - 3$$

$$(x+3)/(3x-3-4) = 3/5$$

$$\text{Solve, } x = 9$$

$$\text{So total age of Tisha + Richa} = x + 3x = 4x = 36, \text{ So square root} = \sqrt{36} = 6$$

8. The ratio of age of Shaisha one year ago to Piya is 3 : 5. The sum of ages of Piya and Misha after four years will be 50. If difference between the ages of Shaisha and Misha is 7 years, find Misha's age.

- A) 21
- B) 19
- C) 18

- D) 10
E) 12

View Answer

Option E

Solution:

$$(S - 1)/P = 3/5$$

$$P + M + 4 + 4 = 50$$

$$\text{So } P + M = 42$$

$$S - M = 7$$

Solve equations, $M = 12$

9. Kashish's age is two-fifth the age of her mother. Nine years hence her age will be half of her mother's age that time. What is her mother's present age?

- A) 22
B) 45
C) 54
D) 36
E) 41

Answer

Option B

Solution:

$$K = 2M/5$$

$$(K+9) = (M+9)/2$$

Solve, $M = 45$

10. Ratio between Rahim's age four years hence and Meher's age three years ago is 6 : 5. If the ratio between Rahim's age two years ago and Meher's age four years hence is 6 : 11, find the ratio of Rahim's age to Meher's age.

- A) 5 : 9
B) 9 : 4
C) 2 : 11
D) 7 : 9
E) 4 : 9

Answer

Option D

Solution:

$$(R+4)/(M-3) = 6/5$$

$$(R-2)/(M+4) = 12/22 = 6/11$$

Solve $R = 14$, $M = 18$