Problem on Ages

The sum of the present ages of a father and his son is 60 years. five years ago, father's age was four times the age of the son. so now the son's age will be:

a) 5
b) 10
c) 15
d) 20
e) None

5 years ago

Son = x

Father = $4x$

-10

$\rightarrow (x) + (4x) = 50$

$5x = 50$

$x = 10$ $\quad +5 \quad$ 15 — Ans

5 years hence, the age of Deepika will be 5 years more than the age of Alia. The ratio of the present age of Deepika to that of Alia is 7:6. What will the age of Deepika and Alia after 6 years?

A. 44, 39 ~~38~~
B. 42, 37 ~~36~~
C. 41, 36 ~~35 30~~
D. 38, 33 32
E. 40, 35 34

$\frac{D}{A} = \frac{7x}{6x}$ — 35 — +6 — 41
— 30 — +6 — 36

1 — ×5 — 5
D : 7 — ×5 — 35 — +6 — 41
A = 6 — ×5 — 30 — +6 — 36

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The sum of the ages of a son and father is 56 years after four years the age of the father will be three times that of the son. Their ages respectively are:A. 12 years, 44 yearsB. 16 years, 42 yearsC. 16 years, 48 yearsD. 18 years, 36 years E. None of These

After 4 years

Son = x

Father = $3x$

$(x) + (3x) = 64$

$4x = 64$

$\boxed{x = 16}$

$+8(4+4)$

Present

Son $= 16 - 4 = 12$

Father $= 48 - 4 = 44$

$\boxed{A = 12, 44}$

Ratio of the ages of Mahesh and Nilesh is 5 : 8. Mahesh is 8 years younger to Ramesh. After nine years Ramesh will be 47 years old. Find the difference between the ages of Mahesh and Nilesh ?

a) 12
b) 18
c) 24
d) 15
e) 10

$\frac{M}{N} = \frac{5}{8}$ ×6 → 30, 48

$M = R - 8$

$R + 9 = 47$

$R = 38$

$M = 38 - 8 = 30$

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A person's present age is two-fifth $\frac{2}{5}$ of the age of his mother. After 8 years, he will be one-half of the age of his mother. How old id the mother at present?A. 32 yearsB. 36 yearsC. 40 yearsD. 48 years
E. None of these

$\Rightarrow \text{Person} = \frac{2}{5} \times \text{Mother}$

$\frac{\text{Person}}{\text{Mother}} = \frac{2}{5} = \frac{2x}{5x} \xrightarrow{\times 8} \frac{16}{40}$

After 8 years

$\frac{P}{M} = \frac{2x+8}{5x+8} = \frac{1}{2}$

$\frac{2x+8}{5x+8} = \frac{1}{2}$

$4x + 16 = 5x + 8$

$x = 8$

$\text{Mother} = 5x = 40$

10 years ago, Elephant was five times older than Giraffe . Five years from now, the age of Elephant will be twice the age of the Giraffe. What was the ratio of the age of Elephant and Giraffe five years ago?

A. 3:1
B. 3:2
C. 4:1
D. 1:4
E. 5:2

10 years ago

$\frac{E}{G} = \frac{5x}{1x}$

10 years ago		Present		5 years ago
25	+10	35	−5	30
5	+10	15	−5	10

$\frac{30}{10} = \frac{3}{1}$

2012 → 2022 → 2027 (+15)

$\frac{E}{G} = \frac{5x+15}{1x+15} = \frac{2}{1}$

$5x + 15 = 2x + 30$

$3x = 15$

$x = 5$

SAARTHI EDUCATION
Driven to Succeed..

Five years before, the age of father was 5 times of the age of son. Ten years hence, the age of father will become 2.5 times of the age of son. At present, what is the ratio of the sum of their ages and the difference of their ages?

A. 5 : 3
B. 16: 9
C. 3 : 5
D. 9 : 16
E. None of these

The age of a person is thrice the total ages of his 2 daughters. After 5 years, his age will be twice of the total ages of his daughters. Then what is the father's current age?

a) 40
b) 35
c) 45
d) 47
e) None

The ratio of present age of A and B is 6: 7. The present age of C is square of half of B's present age. Find the present age of C, if the age of A after 6 years is 18 years?

a) 49 years
b) 45 years
c) 41 years
d) 38 years
e) None of these

5 years ago, the ratio of age of A and B is 3: 2. C is 7 years younger than A. The present age of C is 2 times of D's present age. Find the present age of B, if the age of D, after 6 years is 35 years?

a) 40 years
b) 42 years
c) 45 years
d) 38 years
e) None of these

5 years ago, the age of a man was 3 years more than 4 times his son's age. After 3 years the man will be 6 years less than thrice the age of his son. After how many years will the sum of their ages be 80 years?

a) 12 years
b) 16 years
c) 14 years
d) 10 years
e) None of these