



**THINK BIGGER**

**TCS - 2025**  
**RATIO AND**  
**PROPORTION**





# RATIO AND PROPORTION



$$8a^2 : b = b : c ; 27b = c,$$

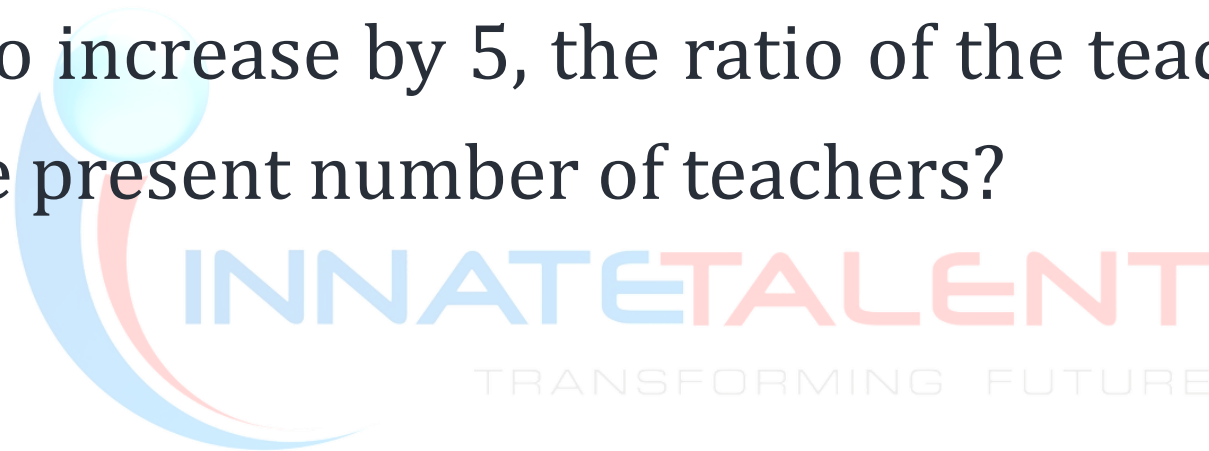
find  $4a + b : 4a - b = ?$



If A, B, C is 5400, then  $\frac{A+B}{C} = \frac{7}{3}$ ,  $\frac{A+C}{B} = \frac{8}{7}$ , what is ratio of A : B : C?



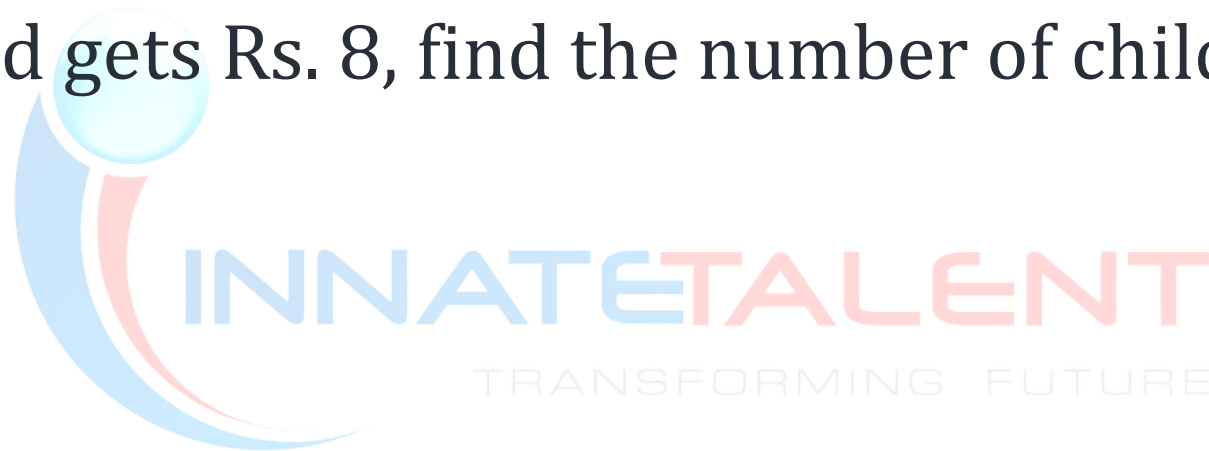
The present ratio of students to teachers at a certain school is 30 to 1. If the student enrollment were to increase by 50 students and the number of teachers were to increase by 5, the ratio of the teachers would then be 25 to 1. What is the present number of teachers?



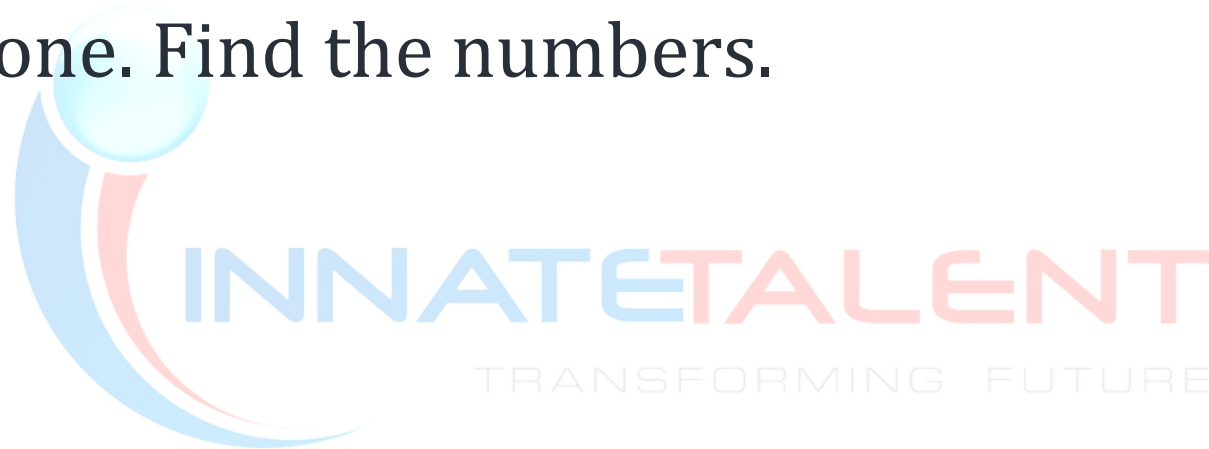
Two tea bags A contain 200 kg & B contain 235 kg and mixture is 210  
find the mixing ratio of tea A & B



A sum of money was equally distributed among 55 children, each child received Rs. 16. If the same amount is equally distributed among children, such that each child gets Rs. 8, find the number of children.



The ratio of two numbers is 5:2. If 10 is added to the greater number and 4 is subtracted from the smaller number, the greater number becomes thrice the smaller one. Find the numbers.





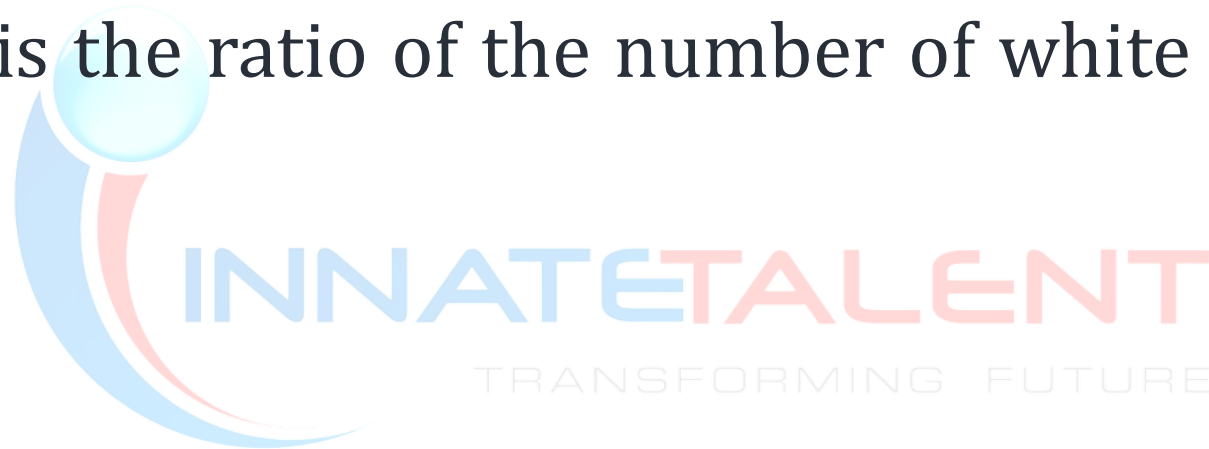
Divide Rs. 600 among 3 persons X, Y, and Z such that 4 times X's share, 3 times Y's share, and 5 times Z's share are all equal. Find the shares of X, Y, and Z.



Three friends went for a picnic. The first brought ten guavas, the second brought eight guavas, and the third friend brought only Rs. 18. What is the share of the first friend?



The ratio of the number of white to black balls in box A is 3:4 and the number of white to black balls in box B is 4:6. If balls in both boxes are mixed, then what is the ratio of the number of white to black balls in the mixture?



The ratio of the number of male population in villages X and Y is 7:6 and the ratio of the number of male to female population in X is 3:4. If the number of female population in Y is 900 more than the number of female population in X and the difference between the number of male population in X and Y is 150, then find the number of female population in Y.



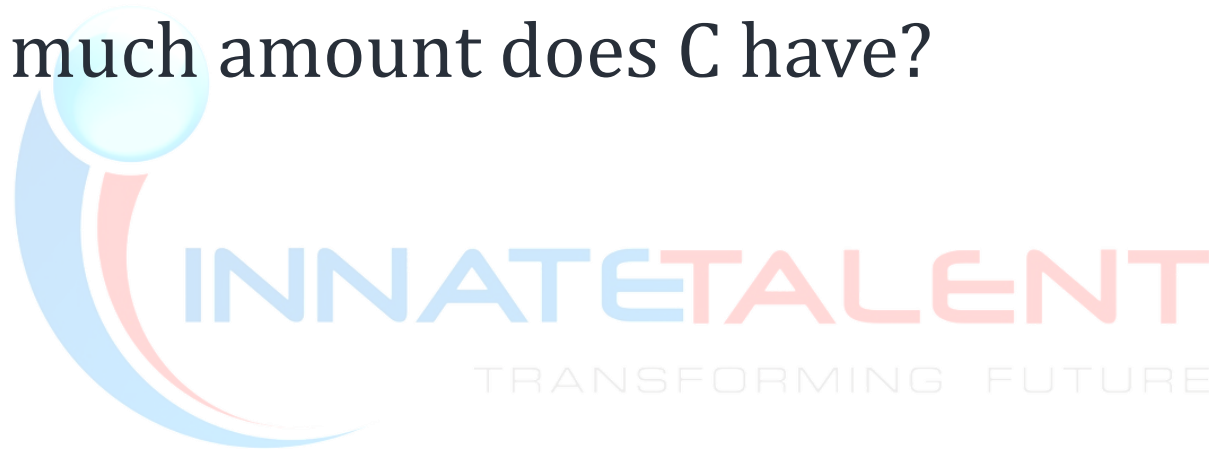
In a group of cats and dogs, the number of legs is 40 more than twice the number of heads. How many cats are in the group?

- a) 20
- b) 40
- c) 50
- d) 60



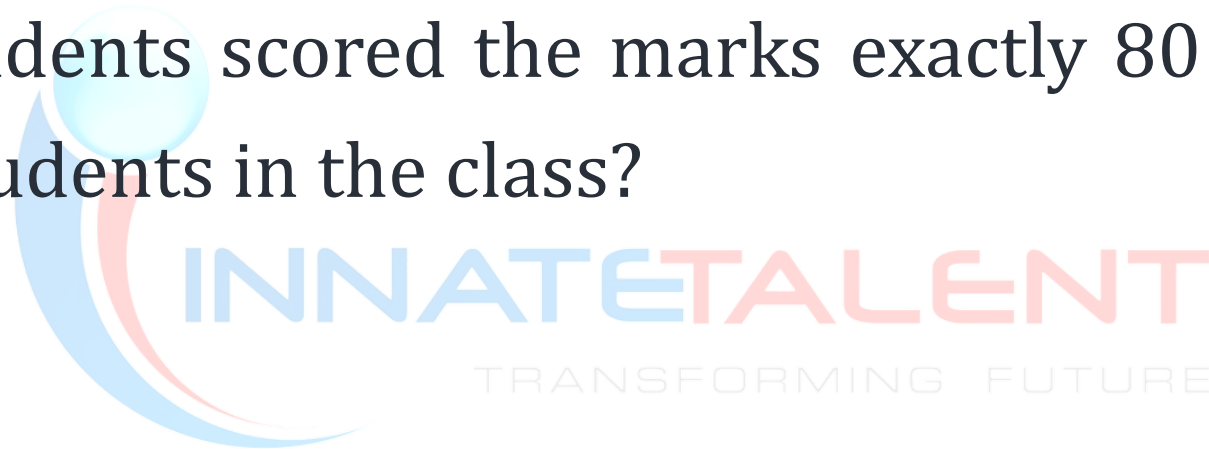
A, B and C together have Rs. 23400. If  $\frac{4}{15}$ th of A's amount is equal to  $\frac{2}{5}$ th of B's amount and  $\frac{5}{8}$ th of B's amount is equal to  $\frac{9}{16}$ th of C's amount, then how much amount does C have?

- a) 12500
- b) 13800
- c) 11000
- d) 7200



40% of the students in the class scored the mark in below 80 and the ratio of the number of students scored above 80 to exactly 80 marks in 3:4. If the number of students scored the marks exactly 80 is 12, then find the total number of students in the class?

- a) 40
- b) 45
- c) 35
- d) 30
- e) 50



Two numbers are in the ratio of 4: 5. If the first number is doubled, while second number is increased by 60, then the new ratio is 2: 5. Find the sum of the two numbers initially.

- a) 42
- b) 36
- c) 84
- d) 58





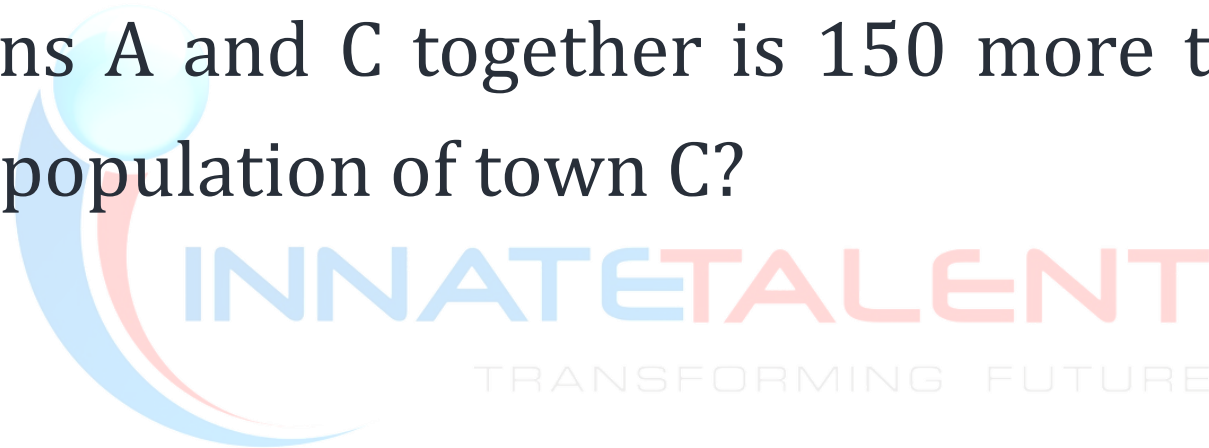
In an examination of bank, the number of passed candidates was five times the number of failed candidates. If there had been 40 less candidates appeared and 20 more candidates had failed, then the ratio of passed to failed candidates becomes 3: 1. Then find the total number of candidates failed initially.

- a) 70
- b) 60
- c) 50
- d) 300



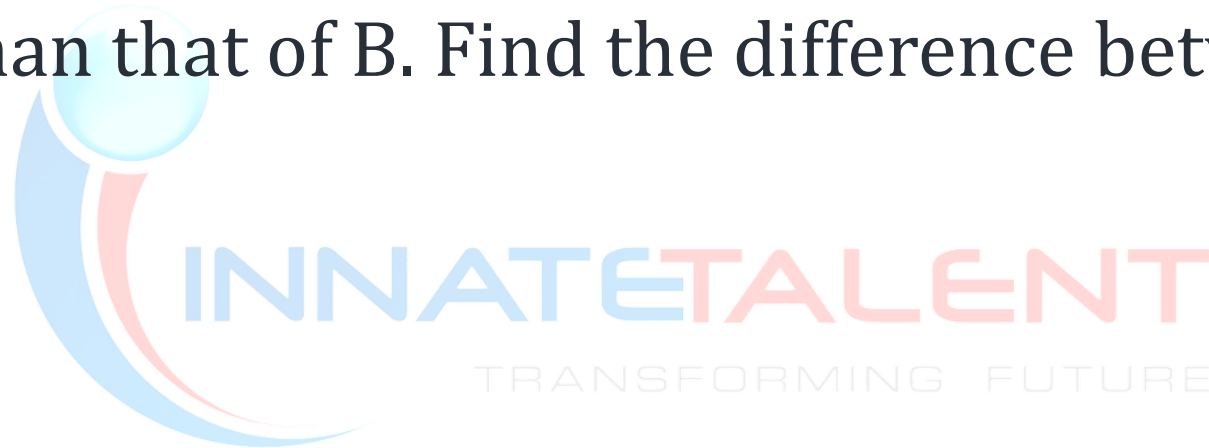
The total population of town A is  $\frac{2}{5}$  th of the total population of town B and the ratio of the total population of town A to C is 4:7. If the total population of towns A and C together is 150 more than that of town B, then find the total population of town C?

- a) 700
- b) 1400
- c) 1050
- d) 840



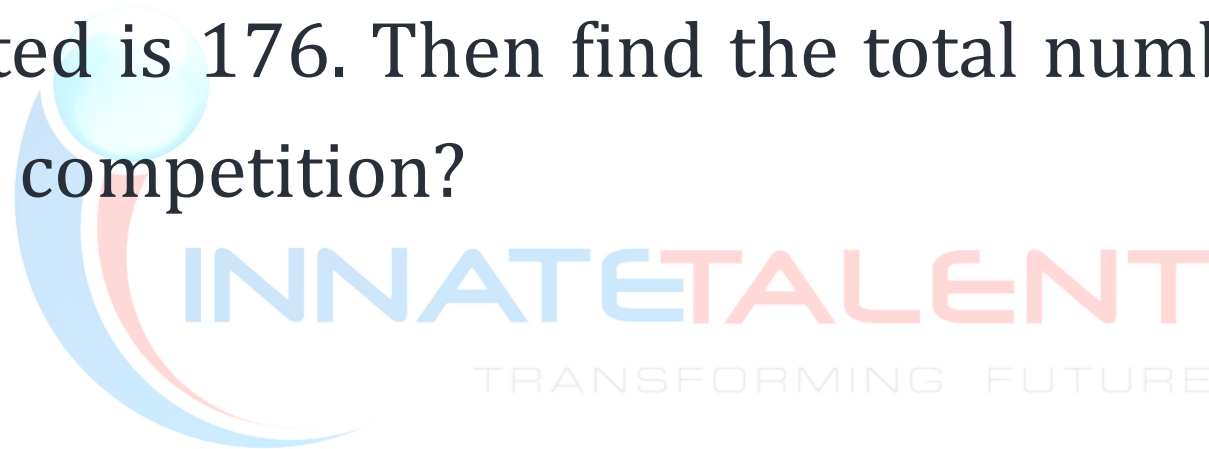
Ratio of the income to the expenditure of A and B is 5:4 and 8:7 respectively and the sum of their savings is Rs.9000 and the savings of A is Rs.1000 more than that of B. Find the difference between their incomes.

- a) Rs.7000
- b) Rs.4500
- c) Rs.6000
- d) Rs.8000



The ratio of the number of Boys to Girls who participated in a dance competition is 4:5. 45% of the girls got selected. If the number of girls who are not selected is 176. Then find the total number of students who participated in the competition?

- a) 523
- b) 546
- c) 576
- d) 584



Marks obtained by Mohan in Hindi and English are in the ratio of 4: 5, respectively, while the ratio of marks obtained by Mohan in Maths and Science is 5: 6, respectively. He scored 36 marks more in Science than in English, and 32 marks more in Maths than in Hindi. Find the ratio of marks obtained by Mohan in Hindi and Science.

- a) 5: 6
- b) 6: 7
- c) 2 : 3
- d) 1: 2.



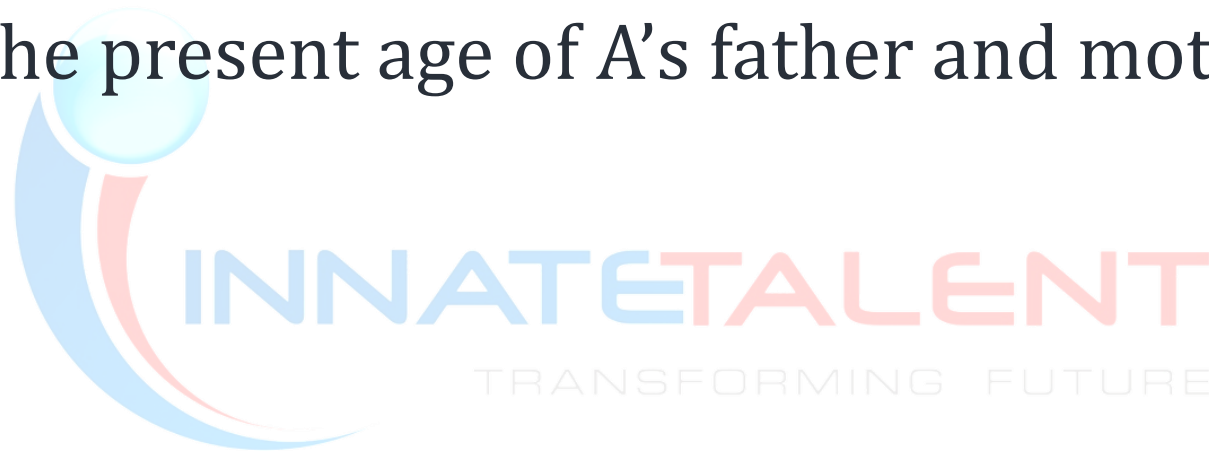
The cost price of 3 shirts and 2 jeans is Rs. 1800 and the cost price of 4 jeans and 5 shirts is Rs. 3200. Find the ratio between the cost price of the jeans and the shirt.

- a) 1 : 2
- b) 3 : 4
- c) 4 : 3
- d) 2 : 1





A will be 32 years old in 8 years from now. In 4 years, A's father age will be twice as A's age and two years ago, his mother's age will be twice as his age. What will be the present age of A's father and mother?

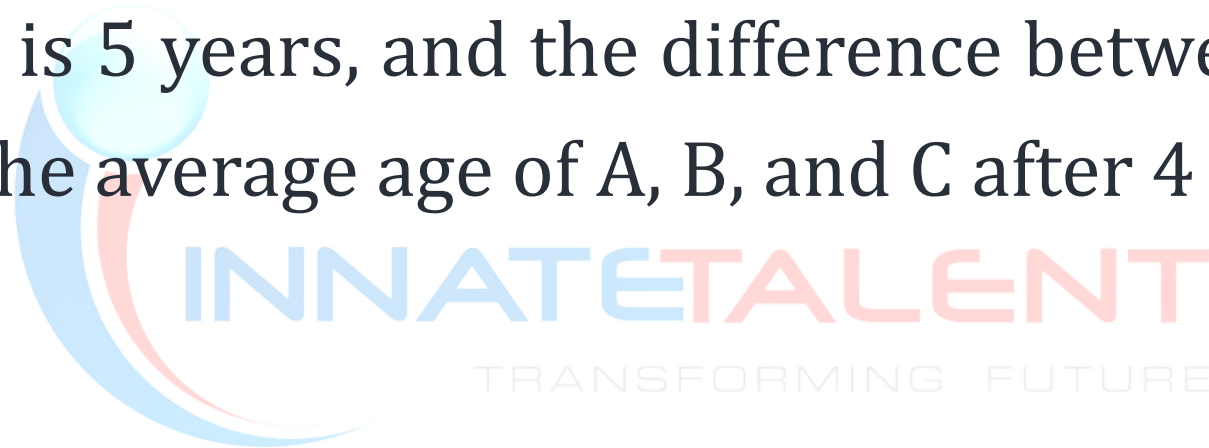




If father age is four times the son's age. After 5 years, the father's age is thrice of son's age . After 30 year, find the average of father and son

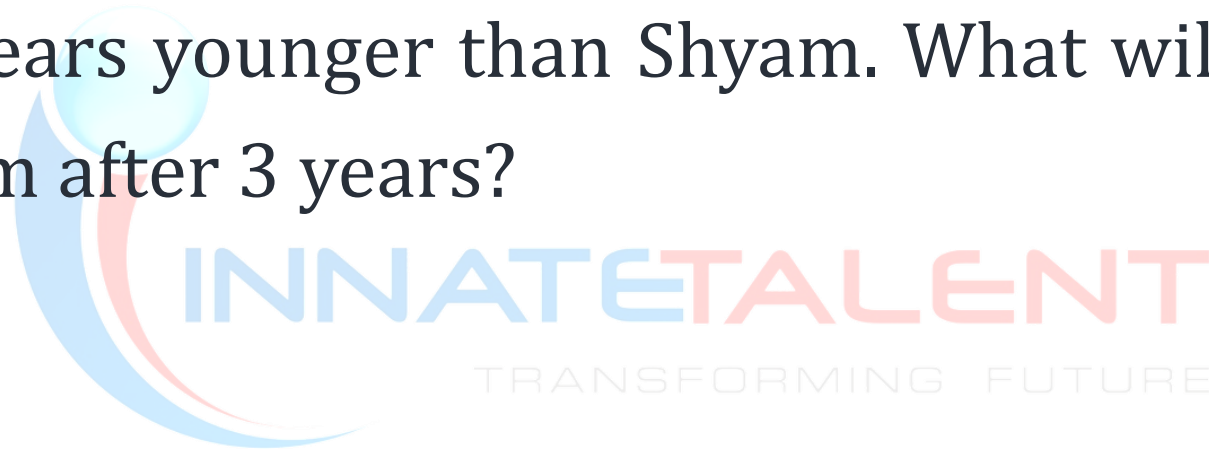


The average age of four friends A, B, C, and D is 24 years. The sum of the age of A and B is 10 years more than the age of D. The difference between the age of D and B is 5 years, and the difference between the age of D and A is 7 years. Find the average age of A, B, and C after 4 years.



The present age of Arjun and Radhika is in the ratio 3 : 2 respectively. 9 years ago, the ratio of age of Arjun and Shyam was 4 : 5 respectively and Radhika was 10 years younger than Shyam. What will be the ratio of age of Arjun and Shyam after 3 years?

- a) 5: 8
- b) 4: 5
- c) 8: 9
- d) 3: 4



5 years ago, the ratio of the age of two friends A and B was 4:1. Their present ages differ by 6 years. Find the average of their ages, after 3 years.

- a) 12 years
- b) 14 years
- c) 11 years
- d) 13 years



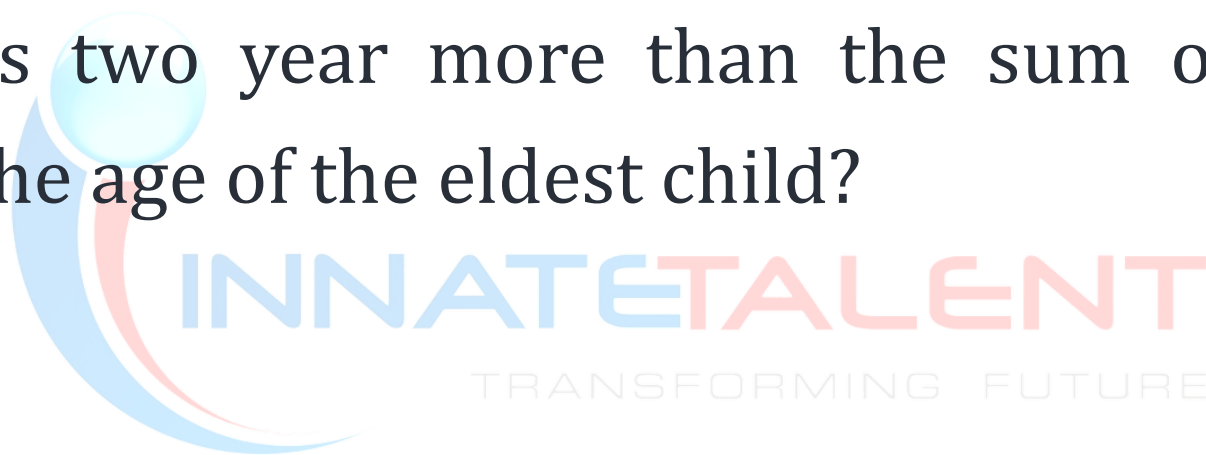
Mother, daughter and an infant combined age is 74, and mother's age is 46 more than daughter and infant. If infant age is 0.4 times of daughter age, then find daughters age.

- a) 10
- b) 8
- c) 12
- d) 15



A grand father has 3 grand children. Age difference of two children among them is 3. Eldest child age is 3 times the youngest child's age and the eldest child age is two year more than the sum of age of other two children. What is the age of the eldest child?

- a) 10
- b) 20
- c) 12
- d) 15



In 10 years, A will be twice as old as B was 10 years ago. If A is now 9 years older than B the present age of B is

- a) 50
- b) 48
- c) 39
- d) 45



Present age of A is 6 times the age of B 2 years ago. 4 years hence, A's age will be 4 times the age of B at that time. What will be the age of B after 6 years?

- a) 19 years
- b) 11 years
- c) 18 years
- d) 17 years





The ratio of present ages of A and B is 4:3. Present age of B is equal to the age of A 6 years ago. Find the sum of the ages of A and B after 4 years.

- a) 50 years
- b) 45 years
- c) 43 years
- d) 53 years



# DIFFERENTIATE

# “YOURSELF”

# FROM OTHERS !!



# INNATETALENT

TRANSFORMING FUTURE