**Problems on Ages**

1. **The ages of two persons differ by 15 years. If 7 years ago, the elder one be 4 times as old as the younger one, find their present ages?**
2. **16 and 31 (b) 12 and 27 (c) 11 and 26 (d) 17 and 32**

**Ans: (b)**

**Soln: Let the age of the younger person be x years**

**Then age of elder person = (x+15) years**

**4(x-7) = (x+15-7)**

**4x-28 = x+8**

**3x = 36**

**x = 12**

**Hence , their present ages are 12 years and 27 years.**

1. **The present age of a father is 4 years more than 5 times the age of his son. 2 years hence, father’s age will be 10 years more than thrice the age of son. Find the present age of the father?**

**(a) 24 (b)29 (c)37 (d)32**

**Ans: (b)**

**Soln: Let the son’s present age be x years.**

**Then, father’s present age = (5x+4)years**

**(5x+4+2) = 3(x+2) + 10**

**5x+6 = 3x+16**

**2x = 10**

**x = 5**

**Hence father’s present age = (5x+4) = (5\*5+4) = 29.**

**3. Ram is 50 years old and Sham is 80 years old. How many years ago was**

**the ratio of their ages 2 : 5?**

**(a)10 years (b) 20 years (c) 30 years (d) 40 years**

**Ans: (c)**

**Soln: Suppose, the ratio was 2 : 5, x years ago**

**Then 50-x = 2**

**80-x 5**

**5(50-x) = 2(80-x)**

**3x = 90**

**x = 30**

**4. The total age of x and y is 15 years more than the total age of y and z.**

**Z is how many years younger than x?**

**(a) 15 (b) 30 (c) Data inadequate (d) z is elder than x (e) none of the above**

**Ans: (a)**

**Soln: (x+y) – (y+z) = 15**

**x-z = 15**

**5. The sum of the ages of 5 children born at the intervals of 4 years each**

**is 50 years. What is the age of the youngest child?**

**(a) 3 years (b) 4 years (c) 2 years (d) 8 years**

**Ans: (c)**

**Soln: Let the ages of the children be, x, (x+4), (x+8), (x+12) and (x+16) years.**

**Then, x(x+4)+(x+8)+(x+12)+(x+16) = 50**

**5x = 10**

**x = 2**

**Therefore, age of the youngest child = 2 years.**

**6. The total of the ages of Rahul, Sunil and Sumith is 99 years. Five**

**years ago, the ratio of their ages was 3 : 4: 5. What is the present**

**age of Sunil?**

**Ans: (a)**

**Soln: Let the ages of Rahul, Sunil and Sumith 5 years ago be 3x, 4x and 5x years respectively.**

**Then, (3x+5) + (4x+5) + (5x+5) = 99**

**12x = 84**

**x = 7**

**Therefore, Sunil’s present age = (4x+5) = 33 years.**

**7. A is 7 years older than B who is thrice as old as C. If the total of the ages of**

**A,B and C be 35,then how old is B?**

**(a)10 years (b)11 years (c)12 years (d)13 years**

**Ans: (c)**

**Soln: Let C’s age be x years. Then B’s age = 3x years.**

**A’s age =(3x+7)years**

**Therefore,(3x+7)+3x+x = 35**

**7x+7=35**

**7x=28**

**x=4**

**Hence, B’s age=3x=12 years**

**8. Mamatha’s age is 1/5th of her father’s age. Mamatha’s father’s age will be thrice of Vishwa’s age after**

**8 years. If Vishwa’s sixth birthday was celebrated two years before, then what is Mamatha’s present**

**age?**

**(a)6 years (b)7 years (c)8 years (d)10 years**

**Ans: (c)**

**Soln: Vishwa’s age after 8 years = (6+2+8)years = 16 years**

**Mamatha’s father’s age after 8 years = 48 years**

**Mamatha’s father’s present age = 40 years**

**Therefore, Mamatha’s age = [(1/5)\*40] = 8 years**

**9. Aishwarya is younger than Amulya by 5 years. If their ages are in the respective ratio of 4:9, how old**

**is Aishwarya?**

**(a)12 years (b)9 years (c)7 years (d)4 years**

**Ans: (d)**

**Soln: Let Amulya’s age be x years.**

**Then, Aishwarya’s age = (x-5)years.**

**Therefore, x-5 = 4**

**x 9**

**9x-45=4x**

**5x = 45**

**x = 9**

**Hence, Aishwarya’s age = (x-5) =9 – 5**

**= 4 years**

**10. At present, the ratio between the ages of Ramesh and Suresh is 5:6. After 9 years, Ramesh’s age will**

**be 34 years. What is the age of Suresh at present?**

**(a)30 years (b)35 years (c)40 years (d)25 years**

**Ans: (a)**

**Soln: Let the present ages of Ramesh and Suresh be 5x years and 6x years respectively.**

**Then, 5x+9 = 34**

**5x = 25**

**x = 5**

**Therefore, Suresh’s age = 6x years = 30 years**

**11. The sum of the present ages of a father and his son is 50 years. 4 years ago, father’s age was six**

**times the age of the son. After 7 years, son’s age will be:**

**(a)12 years (b)17 years (c)18 years (d)16 years**

**Ans: (b)**

**Soln: Let the present ages of son and father be x and (50-x) years respectively.**

**Then, (50-x)-4 = 6(x-4)**

**46 – x = 6x – 24**

**7x = 70**

**x = 10 years**

**Therefore, son’s age after 7 years = (x+7)**

**= 17 years**

**12. A person was asked to state his age in years. His reply was “Take my age five years hence, multiply**

**It by 5 and then subtract 5 times my age five years ago and you will know how old I am”. What was**

**the age of the person?**

**(a)15 years (b)20 years (c)25 years (d)50 years**

**Ans: (d)**

**Soln: Let the present age of the person be x years**

**Then, 5(x+5) – 5(x-5) = x**

**5x+25 – (5x-25) = x**

**x = 50**

**13. A is as much younger than B as he is older than C. If the sum of the ages of B and C is 40 years, what**

**is definitely the difference between B and C’s age?**

**(a)5 years (b)8 years (c)Data sufficient (d)None of these**

**Ans: (c)**

**Soln: B – A = B – C**

**A = C**

**Also, B + C =40**

**B + A =40**

**So (B-A) cannot be determined.**

**14. Krishna’s father was 40 years old when he was born while his mother was 35 years old. Then his**

**brother 3 years younger to him was born. What is the difference between the ages of his parents?**

**(a)2 years (b)4 years (c)6 years (d)8 years**

**Ans: (d)**

**Soln: Mother’s age when Krishna’s brother was born= 35 years**

**Father’s age when Krishna’s brother was born= (40+3) years= 43 years**

**Therefore required difference= (43-35) years= 8 years.**

**15. A man is 18 years older than his son. In 5 years, his age will be thrice the age of his son. The present**

**age of the son is**

**(a)3 years (b)4 years (c)5years (d)6years**

**Ans: (b)**

**Soln: Let the son’s present age be x years**

**Then man’s present age= (x+18) years**

**(x+18)+5=3(x+5)**

**x+23=3x+15**

**2x=8**

**x=4 years.**

**16. The difference between the ages of 2 persons is 6 years. Ten years ago the elder one was thrice as**

**old as the younger one. The present age of the elder person is**

**(a)9 years (b)11 years (c)15 years (d)19 years**

**Ans: (d)**

**Soln: Let the ages be x years and (x+6) years**

**Then (x+6)-10=3(x-10)**

**x-4=3x-30**

**2x=26**

**x=13**

**Therefore present age of the elder person is (x+6)=13+6=19 years.**

**17. The present ages of three persons are in proportions 5:7:9. Six years ago, the sum of their ages was**

**66. Find their present ages?(in years)**

**(a)28,36,40 (b)22,26,30 (c)20,28,36 (d)24,30,32**

**Ans: (c)**

**Soln: Let their present ages be 5x,7x and 9x years respectively.**

**Then, (5x-6) + (7x-6) +(9x-6) = 66**

**21x = 84**

**x = 4**

**Therefore, their present ages are 20,28,36 years respectively.**

**18. Ranjan got married 9 years ago. His present age is 8/5 times his age at the time of his marriage.**

**Ranjan’s sister was 5 years younger to him at the time of his marriage. The age of Ranjan’s sister is**

**(a)16 years (b)17 years (c)18 years (d)19 years**

**Ans: (d)**

**Soln: Let Ranjan’s present age be x years.**

**Then, his age at the time of marriage = (x-9) years**

**Therefore, x = [(8/5)(x-9)]**

**5x = 8x -72**

**3x = 72**

**x = 24**

**Ranjan’s sister’s age at the time of his marriage = (x-9) – 5 =24 – 14 = 10 years**

**Ranjan’s sister’s present age = (10+9) =19 years**

**19. Twenty years ago, Riya was ¼ times of Jiya in age. If the ratio of their present ages is 2:3, what**

**will be the total of their ages?**

**(a)20 years (b)40 years (c)60 years (d)80 years**

**Ans: (c)**

**Soln: Let the ages of Riya and Jiya 20 years ago be x and 4x years respectively.**

**Then, x + 20 = 2**

**4x+20 3**

**8x + 40 = 3x + 60**

**5x =20**

**x = 4**

**Therefore, sum of their present ages = (x+20) +(4x+20)**

**= 5x+40**

**= 20+40 = 60 years**

**20. Two years ago, Divya was 3 times as old as her daughter Sakshi. 8 years hence, Divya’s age will**

**exceed her daughter’s age by 12 years. The ratio of the present ages of Divya and her daughter is**

**(a)2:3 (b)3:2 (c)5:2 (d)2:5**

**Ans: (c)**

**Soln: Let the ages of Divya and Sakshi 2 years ago be 3x and x years respectively**

**Then, [3x+2)+8] – [(x+2)+8] = 12**

**3x+10-x-10 = 12**

**2x = 12**

**x = 6**

**Therefore, required ratio –(3x+2):(x+2) = 5:2**