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Ratio and proportion important questions pdf

1. Got twice as many marks in English as in science. His total number of trademarks in English, science and mathematics is 180. If the proportion of his trademarks in English and mathematics is 2: 3, what are his signs in science? SHOW ANSWER CORRECT Ans: 30 Explanation: English : Math = 2:3English : Science = 2:1English : Mathematics: Science = 2:3:1English + Mathematics + Science = 180Marks in Science = $(1/6) * 180 = 30$. In the book store, the ratio of English and Hindi books is 7:2. If there are 1512 English books and due to the increasing demand for English books, few English books are added to the shopkeeper and that ratio becomes 15:4. The number of English books added is: SHOW ANSWER Correct Ans:108 Explanation: ---> Ratio of English books/ Hindi books---> 7: 2 = 1512: Hindi books---> Hindi books = 432---> Let x books be added: ---> 15: 4 = (1512 + x) : 432---> for solving we x = 108 3. By mistake, instead of dividing Rs. 117 between A, B and C in a relationship of 1/2,1/3,1/4, it was divided into a 2:3:4. Who gets the most and how much? SHOW ANSWER CORRECTION Ans: C, Rs. 25 Explanation: ---> Initial ratio A, B and C = 1/2: 1/3: 1/4 = 6: 4: 3---> A = 6/13 * 117 = Rs. 54---> Part B = 4/13 * 117 = Rs. 36---> C = 3/13 * 117 = Part Rs. 27---> Ratio A, B and C due to error = 2: 3---> Part A = 2/9 * 117 = Rs.26---> Part B = 3/9 * 117 = Rs.39---> Part C = 13 * 4 = Rs.52---> It is therefore apparent from the above calculation that the maximum C gain, i.e. 52 - 27 = Rs. 25 4. Dhiraj's coins have a ratio of Rs.1 coins, 50p coins and 25p coins can be expressed with three consecutive odd prime numbers, which are in ascending order. The total value of coins in the bag is Rs 58. If the number of Rs.1, 50p and 25p coins is inverted, find a new total value in the coin bag dhiraj? SHOW ANSWER Correct Ans: Rs. 82 Explanation: As rs. The ratio of the number of 1, 50p and 25p coins can be represented by 3 consecutive odd figures, which is the main ascending order; The only option ratio is 3:5:7 ---> Let the number of Rs.1, 50p and 25p coins be 3x, 5x and 7x respectively. ---> Thus, the total value of the coins is ---> = $100*3x+50*5x+25*7x = 725x$ ---> Taking into account $725x = 5800$ ---> hence x = 8 ---> if the number of Rs coins. 1.50p and 25p are inverted, coin total value in bag (paise) ---> = $100*7x + 50 * 5x + 25 * 3x = 1025x$ ---> Substitute x = 8 ---> New total = Rs. 82 5. Karan, Hari and Kowshik play cricket. The go got with Karan to Hari and Hari to Kowshik's ratio of 5:3. They get a total of 588 flights. How much go did Karan get? Reference: ---> Karan: Hari = (5:3) ---> Hari: Kowshik = (5:3) ---> Karan: Hari: Kowshik = (25:15:9) ---> So, go with Karan, ---> = $(25/49) * 588$ ---> = $25 * 12 = 300$ to go 6. The outgoing student lot wants to make gift books worth Rs 4200 to their teachers. If boys offer to pay 50% more than girls and external sponsors give three times the boy's contribution, then how much would the boys donate? SHOW ANSWER CORRECT Ans: Rs 900 Explanation: ---> ratio of stock girls: boys: sponsors = (1:1.5:4.5) ---> So the proportion of the boy's share = $(1.5/7)$ ---> So, boys should donate = $(1.5/7) * 4200 = Rs 900$ 7. Chiku, Tipu and Pinku are some with each of them there are some of them. Five times more than salty with Pinku equals seven times more pilgrims with Chiku, but five times more feasts with Chiku equal seven times more than wasted by Tipu. What is the minimum number of arams that can be there with all three of them together? SHOW ANSWER Correct Ans:109 Explanation: ---> Let with Chiku, Pink and Tipu with Chiku, Pink and Tipu with chiku, Pink and Type with mower should be a,b and c. ---> Given, 5b = 7a, and 5a = 7c ---> 25b = 35a and 35a = 49c ---> 25b = 35a = 49c => (b/49) = (c/25) ---> Less likely a,b & c integral values will be = 35, b = 49 and c = 25 ---> Total = 35+49+25 = 109 8. If 40% of UG students and 50% of PG students are scholarship winners. How many percent of students do not receive a scholarship? SHOW ANSWER CORRECT ANS: 55.50% Explanation: ---> Let UG students be = 5x and ---> PG students = 4x respectively ---> No. of those not receiving a scholarship, ---> = 60% of 5x + 50% of 4x ---> = $(60/100 * 5x) + (50/100 * 4x)$ ---> = $300x/100 + 200x/100$ ---> = 3x + 2x ---> = 5x ---> Required percentage = $(5x/9x) * 100$ ---> = 55.5% 9. Naveena and Menaka's salary has a ratio of 6:5. If the salary from each is increased by Rs.6000, the new ratio becomes 38:35. What is Menaka's current salary? SHOW THE ANSWER CORRECT ANS: 4500 Explanation: ---> Let the original salary of Naveena and Menaka be 6x and 5x respectively---> Then, $(6x+6000)/(5x+6000)=38/35$ ---> $35(6x+6000) = 38(5x+6000)$ ---> $210x + 1021000 = 190x + 228000$ ---> $210x - 190x = 228000 - 1021000$ ---> $20x = 180000$ ---> $x = 9000$ ---> Menaka's current salary = 5x---> = 5 * 900 = Rs. 4500 10. A year ago, the ratio between Lalitha and Ganga's salary was 3:4. Their individual salary ratio between last year's and this year's salaries is 4:5 and 2:3, respectively. At present, their salary totals are Rs. 4160. Salary Lalitha, now is THE SHOW ANSWER Correct Ans: Rs. 1600 Explanation: Let the salaries of Lalitha and Ganga one year before be 'a' and 'b' respectively and the current salary is 'La' and 'Lb' respectively. Dota ratio:La/Ga = 3/4Lb/La = 4/5Gb/Ga = 2/3Picture their total salary is Rs. 4160.La + Ga = 4160Substitute Profit' value in the above equation, La + (3Ga/2) = 4160Now, substitute Ga' value,La + [3(4Lb/3)/2] = 4160La + 2Lb = 4160Th value,La + 2(4Lb/5) = 41605La + 8Lb = 2080013La = 20800Lb = Rs. 1600.Thus, the current salary of Lalitha is Rs. 1600 11. The ratio of the current age of Veer, Sameer, Divyaraj, Ayush and Sumit is 14: 15: 13: 12: 16 and the age amount of Veer, Divyaraj & Sumit for four years, so it will be 44 years more than the sum of the current age sameer & Ayush. Find a relationship in the age of Veer, Sameer, Divyaraj, Ayush and Sumit after 10 years? SHOW ANSWER Remyetly Ans: (19:20:18:17:21) Explanation: Let the current age of Veer, Sameer, Divyaraj, Ayush and Sumit be 14x, 15x, 13x, 12x, 16x respectively. Sum of age of Veer, Divyaraj & Sumit four years hence = 44 years more than sum of present age of Sameer & Ayush(14x + 13x + 16x + 4*3) = 44 + 15x + 12x43x + 12 = 27x + 4443x - 27x = 44 - 1216x = 32x = 2Present age of Veer = 14*2 = 2 8 yrsPresent age of Sameer = 15*2 = 30 yrsPresent age of Divyaraj = 13*2 = 26 yrsPresent age of Ayush = 12*2 = 24 yrsPresent age of Sumit = 16*2 = 32 yrsRatio of age of Veer, Sameer, Divyaraj, Ayush and Sumit after 10 yrs = (28 + 10) : (30 + 10) : (26 + 10) : (24 + 10) = 38 : 40 : 36 : 42 = 19 : 20 : 18 : 17 : 21. The distance travelled by the train shall be 1830 km and the train speed shall be one more than twice the time required to travel. Finds the ratio between train speed and train time. SHOW ANSWER Correct Ans: 61:30 Explanation: Let the time on the train be t h. For a question, speed = 1 + 2t WKT, Speed = distance /time 1 + 2t = 1830/t 2t + t - 1830 = 0 2t + 61t - 1830 = 0 2t(t - 30) + 61t(t - 30) = 0 (t - 30) = 0 t = 30: -61/2 So, t = 30 hours. Therefore, speed = 1830/30 = 61 km/h Required ratio = 61: 30 13. If the numbers of the age of Mr. Suman have changed, then the new age it acquired is the age of his wife. 1/11 of their age amount equals the difference between their age. If Mr. Suman is a senior than his wife, then find a relationship of their age. SHOW ANSWER Correct Ans: 6:5 Explanation: Let the current age of Mr. Suman = (10x + y) yrs. His wife's current age = (10y + x) yrs According to the question (1/11)Their age difference = age difference (1/11)(10x + y + 10y + x) = (10x + y) - (10y + x) (1/11)(11x + 11y) = 9x - 9y x + y = 9x - 9y -8x = -10y x/y = 10/8 x/y = 5/4 x : y = 5: 4 Mr. age, Suman = 10 (5) + 4 = 54 years Age his wife = 10 (4) + 5 = 45 years Required ratio = 54/45 = 6: 5. 14. The ratio to density of 3 types of gasoline A1, A2 and A3 is 13: 17: 19. The density A1 is 39 gm/cc and A1, A2 and A3 mixed with a ratio of 3: 5: 7 by weight. If A3 pays Rs. 38 per litre, find the cost of A3 for a mixture of 1050 kg of A1, A2 and A3. SHOW RESPONSE Corrected Ans:Rs. 326.67 Explanation: Given:Weight ratio in mixture = 3: 5: 7 Density rating 3 petrol = 13: 17: 19 Total weight of mixture = 1050 kgDen A1 = 39 gm/cc Density A2 = (17/13)*39 = 51 gm/ccDensity A3 = (19/13)*39 = 57 gm/ccWKT, Volume = Weight/densityNow A3 weight kg mixture = (1050 x 7)/15 = 490 kgSeque A3 = 490/57 litreAximm = (490/57)*38 = Rs. 326.67 15. Sachin and Anurag have a monthly income of 6:7 and their monthly expenses for 5:4. If they save Rs 700 and Rs. 2100 respectively, find monthly expenses for Anurag. SHOW ANSWER CORRECT ANS:2800 Explanation: Given: Income ratio = 6:7 Expense ratio = 5: 4 Let the ced and Anurag income ratio be 6x and 7x, respectively. As for the question, 6x - 5y = 700 ... (1) 7x - 4y = 2100 ... (2) Addressing (1) and (2), we x = 700, y = 700 monthly expenses anurag = 4y = 4 * 700 = Rs.2800. 16. The two-person X-Y pay ratio is 5:8. If salary X increases by 60% and Y decreases by 35%, then the new ratio of their salary becomes 40:27. What is X Salary? SHOW ANSWER Correct Ans:data inappropriate Explanation: The salary ratio of X and Y is 5:8 To the original salary of X and Y is Rs.5k and Rs.8k respectively. After increasing 60%, new salary X = 160% of 5k = 160x5k/100 = 80k/10 ... (1) At 35%, new salary Y = (100-35)% of 8k = 65% of 8k = 52k/10 ... (2) Given that the new ratio is 40:27 That is, 80k/10: 52k/10 = 40/27 It does not give a value k. So we can't find X's exact salary. Therefore, the answer is insufficient data. 17. Daniel had a 10 paise, 25 paise and 50 paise coins in a ratio of 5:4:9 respectively. After Rs 30 his mother he is Rs 30. How many 50 paise coins does he have? SHOW ANSWER Correct Ans: 90 Explanation: Total money = 30 + 30 = 60 In this matter the total money is given, so we need to multiply the coin value in relation. coin * coin ratio = Total money x = Number of coins 5 * 0.10 x + 4 * 0.25x + 9 * 0.50x = 60 .50x + x + 4.5x = 60 x = 10 50 paise number of coins = 9 * 10 = 90 So, the answer is 90 18. Two numbers are in relation 1 (1/2) : 2 (2/3). If each of them is increased by 15, the ratio changes to 1 (2/3) : 2 (1/2). The largest of the numbers is, SHOW ANSWER Edit Ans: 48 Explanation: Two numbers are ratio.1 (1/2) : 2 (2/3) => 3 / 2 : 8 / 3 => 9:16 (9x, 16x) 1 (2/3) : 1 (1/2) => 5/3 : 5/2 => 2 : 3(9x + 15)/(16x + 15) = 2/327x + 45 = 32x + 305x = 15x = 3 Higher of the numbers is, 16x = 16*3 = 48 19. Of the three positive numbers, the ratio between the first and the second numbers is 4: 3, the ratio of the second and third numbers is 6: 5 if the second and third numbers are once once with it 4320. What is the sum of three numbers? SHOW ANSWER Correct Ans: 228 Explanation: Ratio numbers 1 and 2 = 4: 3 Ratio numbers 2 and 3 = 6: 5 Let 2 = 6x, third number = 5x 2nd and 3rd and 3rd. number = 4320 5x * 6x = 4320 x2 = 144 x = 12 2 * x. The balu&Peelu salary ratio is If Balu's salary rises by 40% and Peel's salary decreases by 15%, the new pay ratio becomes 10:9. What is Balu's salary? SHOW ANSWER Correct Ans: Data Insufficient Explanation: To balu&Peelu's original salary would be 5x & 8x New salary Balu = 40% of 5x + 5x = (140/100) * 5x = (700x/100) New salary Peelu = 8x + 85% of 8x = (1 85/100) = (74x/5) = (10x/5) = (10:9) 7x *(5/74x) = (10:9) We cannot find x, therefore, the data given is not sufficient on page 2 2

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