

TEACHERS' VISION

WAY TO GOVERNMENT JOBS

STUDY MATERIAL

QUANTITATIVE APTITUDE RATIO

HIGHLY EXPERIENCED FACULTY 10+ YEARS TEACHING EXPERIENCE



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RATIO

- Two numbers are in the ratio 7:5. On diminishing each of them by 40, the ratio becomes 27:17. The difference between the number is:
(a) 75 (b) 40 (c) 25 (d) 50
- Two number are in the ratio of 12 and 23. If 9 is added from both then ratio become 3 : 5. Then number is?
(a) 36, 60 (b) 30, 50 (c) 33, 55 (d) 24, 46
- Find the number that must be added to the terms of the ratio 7 and 13 to make it equal to 2 : 3.
(a) 5 (b) 4 (c) 7 (d) 6
- Seven their years ago, ages the ages (in years) of A and B were in the ratio 4:5 and 7 years hence, will be in the ratio 5:6. What will be the ratio of their ages 5 years from now?
(a) 34: 41 (b)33: 40 (c)31: 33 (d)33: 34
- On year ago, the ratio of the age (in years) of A to that of B was 4:3. The ratio of their respective ages, 3 years from now, will be 6 : 5. What will be the ratio of respective ages of A and B, 9 years from now?
(a) 8:7 (b) 10 :9 (c) 9:8 (d) 7:6
- Two numbers are in the ratio 3:5. If 13 is subtracted from each, the new numbers are in the ratio 10:21. If 15 is added to each of the original numbers, then the ratio becomes:
(a) 24 : 35 (b) 23 : 33 (c) 4 : 5 (d) 5 : 7
- A sum is distributed between A, B and C in the ratio 9:6:13. If A, B and C takes 1400 from their NGO, the ratio of shares of A, B and C becomes 4:3:5. What is the sum of shares of B and C, in the beginning?
(a) 3,600 (b) 9,100 (c) 7,200 (d) 8,500
- The ratio of two numbers is 3:5. If eight is added to the first, and seven to the second, then the ratio becomes 2:3. What will be the ratio become if six is added to each?
(a) 7:9 (b) 5:9 (c)5:7 (d) 9:14
- The income of A and B are in the ratio 3 : 5 and their expenses are in the ratio 1:5. If each saves Rs. 250 then find their income.
(a) 120, 200 (b) 180, 300 (c) 300, 500 (d) 150, 250
- In a party the ratio number of boys and girls are in 1:2. If two boys and two girls went out then it ratio became 1 : 3. How many boys and girls were present initially.
(a) 8, 16 (b) 4, 8 (c) 2,4 (d) 3, 6
- The income of A and B are in the ratio 5:3 and their expenses are in the ratio 9 : 5. If both saves respectively Rs. 1300 and Rs. 900, then find their income.

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- (a) 4500, 2700 (b) 5000, 3000 (c) 4000, 2400 (d) 1000, 600
12. The ratio of the income of A to that of B is 5 : 7. A and B save Rs.4,000 and Rs.5,000 respectively. If the expenditure of A is equal to $66\frac{2}{3}\%$ of the expenditure of B, then the total income of A and B is :
- (a) Rs.28,800 (b) Rs.26,400 (c) Rs.25,200 (d) Rs.24,000
13. The income of A and B are in the ratio 5 : 7 and their expenses are in the ratio 9 : 11. If A saves Rs. 1200 and B saves Rs. 2000 then find their income.
- (a) 3000, 4200 (b) 4000, 5600 (c) 2500, 3500 (d) 4500, 6300
14. P and Q earn in the. They spend in the ratio 5:3 and ratio 2:1save in the ratio 4 : 1. Find the monthly income of each if the total monthly savings of both P and Q together is Rs. 5000?
- (a) 14000, 7000 (b) 2000, 1000 (c) 10000, 5000 (d) 8000, 4000
15. If 50 less had applied and 25 less selected, the ratio of selected to unselected would have been 9: 4. So how many candidates had applied if the ratio of selected to unselected was 2: 1?
- (a) 125 (b) 375 (c) 250 (d) 500
16. Before a battle the ratio of tanks to planes in an army was 5: 3. During the war 1000 tanks were destroyed and 800 planes were destroyed. The ratio of tanks to planes became 2: 1. What is the number of tanks after the war.
- (a) 2000 (c) 3000 (b) 1000 (d) 4000
17. How many job applicants had applied if the ratio of selected to unselected was 19: 17. If 1,200 less had applied and 800 less selected, then the ratio of selected to unselected would have been 1 : 1.
- (a) 6000 (b) 8400 (c) 7200 (d) 4800
18. In an examination, the success to failure ratio was 5:2. Had the number of failures been 14 more, then the success ratio would have been 9:5. The total number of candidates who appeared for the examination was:
- (a) 210 (b) 126 (c) 196 (d) 203
19. In an examination, the number of those who passed and the number of those who failed were in the ratio 25 : 4. If 5 more had appeared and the number of failures were 2 less than earlier, the ratio of students who passed to the number of students who failed would have been 22 : 3. Find the total number who appeared at the examination.
- (a) 145 (b) 155 (c) 150 (d) 180
20. In an examination, the number of those who passed and the number of those who failed were in the ratio 4:1. If 35 less had appeared and the number of fail ures were 9 more than earlier, the ratio of students who passed to the number of students who failed would have been 2 : 1. Find the total number who appeared at the examination.

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- (a) 155 (b) 160 (c) 158 (d) 165
21. If $A:B = 11:7$ and $B:C = 5:19$, then what is $A:B:C$?
(a) 55:35:133 (b) 35:55:133 (c) 35:133:35 (d) 55:133:35
22. If $a:b = 2:3$ and $c:d = 5a:3b$ then $2c:5d$ is equal to
(a) 1:1 (b) 10:9 (c) 4:9 (d) 9:10
23. A bag contains coins of denomination Rs. 1, Rs. 2 and Rs. 5 in the ratio of 4:5:8. If the total value of the these coins is Rs. 432, then what is the number of Rs. 2 coins ?
24. The ratio of the income of A and B is 7:5 and B save Rs. 4,000 and Rs. 3,500 respectively. If the expenditure of B is half the expenditure of A, then the total income of A and B (in Rs. 1) will be
(a) 10,000 (b) 13,500 (c) 12,000 (d) 12,000
25. If $a:b = 3:5$, $b:c = 7:8$ and $c:d = 2:3$, then $2a:3d$ is equal to
(a) 1:2 (b) 7:30 (c) 7:15 (d) 7:20
26. If $a:b = 5:7$, $b:c = 8:15$, then find the value of $8c:5a$.
(a) 24:5 (b) 21:5 (c) 176:65 (d) 8:21
27. Two positive numbers are in the ratio 8:13. If the sum of the squares is 2097, then the sum of the two numbers is:
(a) 65 (b) 63 (c) 64 (d) 60
28. In a proportion, the product of the first and fourth terms is 70 and that of the second and third terms is $3.5y$. The value of y is :
(a) 17 (b) 20 (c) 15 (d) 22
29. If two numbers are in the ratio 4:7 and the sum of their cubes is 407000, then the greater number will be:
(a) 70 (b) 63 (c) 84 (d) 77
30. If $x:y = 4:5$, then the value of $(8x - 6y) : (9x - 7y)$ is :
(a) 2:1 (b) 1:2 (c) 2:3 (d) 1:3
31. What is the ratio of the mean proportional between 1.2 and 10.8 to the third proportional to 0.2 and 1.2?
(a) 1:3 (b) 1:2 (c) 2:1 (d) 3:1
32. A sum of money is distributed among A, B, C and D in the ratio 5:7:11:15, respectively. If C gets Rs. 2,480 more than B, then the difference between the shares of B and D is:
(a) Rs. 6,490 (b) Rs. 4,950 (c) Rs. 4,690 (d) Rs. 4,960
33. A sum of money is divided among A, B and C in the ratio 2:3:7 respectively. If the share of B is Rs. 15,000, then what will be the difference in the shares of B and C.
(a) Rs. 15,000 (b) Rs. 20,000 (c) Rs 18,000 (d) Rs. 50,000

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34. A's salary increases in the ratio 8:11. If his new salary is Rs. 33,000, then what was the original salary (in Rs.)?
(a) 18,000 (b) 24,000 (c) 20,000 (d) 22,000
35. Three numbers are in the ratio $\frac{1}{4} : \frac{5}{9} : \frac{7}{12}$. The difference between the greatest and the smallest number is 180. Find the sum of all the three numbers.
(a) 500 (b) 800 (c) 750 (d) 650
36. A sum of Rs. x is divided among A, B and C such that the ratio of the shares of A and C is 8:7 and that of B and C is 3:2. If the difference between the shares of A and B is Rs. 240, then what is the value of x?
(a) 2544 (b) 2580 (c) 2490 (d) 2448
37. Two numbers A and B are in the ratio 13:17. If A is increased by 15% by B is increased by 30%, then the new ratio of A to B will be:
(a) 21:39 (b) 21:31 (c) 23:34 (d) 23:33
38. In a bag, white mobile covers and black mobile cover are in the ratio of 4:7. If there are 280 black mobile cover, then how many white mobile cover are there in the bag?
(a) 154 (b) 158 (c) 160 (d) 156
39. If $4p = 6q = 9r$, then p:q:r is equal to :
(a) 9:6:4 (b) 4:6:9 (c) 15:13:10 (d) 16:36:81
40. The present ages of A and B are in the ratio 9:10. The ratio of their ages 8 years from now will be 11:12. What will be the sum of their ages (in years) after 3 years from now?
(a) 84 (b) 82 (c) 76 (d) 78
41. Three numbers are in the ratio $\frac{3}{4} : \frac{5}{8} : \frac{7}{12}$. If the difference between the greatest and the smallest number is 48, then the value of the greatest number will be :
(a) 126 (b) 226 (c) 216 (d) 262
42. If $7A = 4B = 14C$, then what is A:B:C ?
(a) 2:7:4 (b) 2:4:7 (c) 4:7:2 (d) 4:2:7
43. If the ratio A:B is 5:4 and B:C is 3:5 then the ratio of A:B:C is :
(a) 12:15:20 (b) 15:12:20 (c) 15:20:12 (d) 20:15:12
44. The ratio of the ages of A and B, four years ago was 4:5. Eight years hence, the ratio of the ages of A and B will be 11:13. What is the ratio of their present ages?
(a) 9:11 (b) 11:9 (c) 8:7 (d) 7:8
45. A sum of Rs. 11,236, is divided among A, B and C such that the ratio of the shares of A and B is 3:5 and the ratio of the shares of A and C is 4:7. The share of B is:
(a) Rs. 3,392 (b) Rs. 2,544 (c) Rs. 4,452 (d) Rs. 4,240

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46. A sum Rs. 12,992 is divided among A, B and C such that the ratio of the shares of A and C is 4:15 and that of the shares of A and B is 2:5. The difference (in Rs.) between the shares of B and C is :
- (a) 3,136 (b) 2,240 (c) 2,688 (d) 1,792
47. The ratio of boys and girls in a school is 6:7. If total number of students in the school is 3289, then what is the number of girls?
- (a) 1771 (b) 1876 (c) 1984 (d) 1569
48. Malini's younger brother is 12 years old. If the ratio of the age of Malini to that of her brother is 7:6, then what will be ratio in their ages 6 years hence.
- (a) 10:9 (b) 13:12 (c) 17:15 (d) 10:6
49. Two numbers are in the ratio 7:4. If each number is increased by 12, then the ratio becomes 3:2. The sum of the numbers is :
- (a) 60 (b) 66 (c) 68 (d) 56
50. Two numbers are in the ratio of 9:7. If the larger number is 56 more than one seventh of the smaller, then what is the sum of the two numbers?
- (a) 72 (b) 130 (c) 112 (d) 96
51. The daily wages of P, Q and R are in the proportion 5:7:8. If Q earns Rs. 560 per day, then what are the daily wages (in Rs.) of R and P, respectively ?
- (a) 400 and 640 (b) 350 and 590 (c) 640 and 400 (d) 590 and 350
52. If 9685 is divided into three parts in such a way that one-fourth of the first part, one-third of the second part and one-sixth of the third part are equal, then what is the first part ?
- (a) 4470 (b) 2253 (c) 2980 (d) 2235
53. A solution contains acid and water in the ratio of 4:5. If 20% of the solution is replaced by water, then what will be the ratio of acid and water in the new solution?
- (a) 10:7 (b) 5:17 (c) 16:29 (d) 8:15
54. The monthly incomes of A and B are in the ratio 4 : 3. Each saves Rs.600. If their expenditures are in the ratio 3 : 2, then what is the monthly income of A?
- (a) Rs.1800 (b) Rs.2000 (c) Rs.2400 (d) Rs.3600
55. The train fare and bus fare between two stations is in the ratio 3 : 4. If the train fare increases by 20% and bus fare increases by 30%, then what is the ratio between revised train fare and revised bus fare?
- (a) $\frac{9}{13}$ (b) $\frac{17}{12}$ (c) $\frac{32}{43}$ (d) $\frac{19}{21}$
56. Radha and Rani are sisters. Five years back, the age of Radha was three times that of Rani, but one year back the age of Radha was two times that of Rani. What is the age difference between them?

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- (a) 8 (b) 9 (c) 10 (d) 11
57. The product of two positive numbers is 616. If the ratio of the difference of their cubes to the cube of their difference is 157:3, then the sum of the two numbers is
(a) 85 (b) 58 (c) 95 (d) 50
58. In an examination, Rama's score was one-twelfth of the sum of the scores of Mohan and Anjali. After a review, the score of each of them increased by 6. The revised scores of Anjali, Mohan, and Rama were in the ratio 11:10:3. Then Anjali's score exceeded Rama's score by
(a) 35 (b) 40 (c) 32 (d) 24
59. The ratio of the income of A to that of B is 5 : 7. A and B save Rs.4,000 and Rs.5,000 respectively. If the expenditure of A is equal to $66\frac{2}{3}\%$ of the expenditure of B, then the total income of A and B is:
(a) Rs.28,800 (b) Rs.26,400 (c) Rs.25,200 (d) Rs.24,000
60. In a school, $\frac{4}{9}$ of the number of students are girls and the rest are boys. $\frac{3}{5}$ of the number of boys are below 12 years of age and $\frac{5}{12}$ of the number of girls are 12 years or above 12 years of age. If the number of students below 12 years of age is 480, then $\frac{5}{18}$ of the total number of students in the school will be equal to:
(a) 240 (b) 315 (c) 225 (d) 270
61. When x is added to each of 2, 3, 30 and 35, then the numbers obtained in this order, are in proportion. What is the mean proportional between (x + 7) and (x - 2)?
(a) 7 (b) 4 (c) 5 (d) 6
62. On year ago, the ratio of the age (in years) of A to that of B was 4 : 3. The ratio of their respective ages, 3 years from now, will be 6 : 5. What will be the ratio of respective ages of A and B, 9 years from now?
(a) 8 : 7 (b) 10 : 9 (c) 9 : 8 (d) 7 : 6
63. Two-third of the number of employees of a company are males and the rest are females. If $\frac{3}{8}$ of the male employees and $\frac{2}{5}$ of the female employees are temporary employees and the total number of permanent employees is 740, the $\frac{7}{15}$ of the total number of the employees exceeds the number of temporary female employees by:
(a) 320 (b) 308 (c) 400 (d) 340
64. What is the ratio of the third proportional to 0.4 and 0.8, to the mean proportional between 13.5 and 0.24?
(a) 9:10 (b) 8:9 (c) 5:4 (d) 7:8

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65. The ratio of the incomes of A and B last year was 4:3, respectively. The ratios of their individual incomes of the last year and the present year are 3:4 and 5:6, respectively. If their total income for the present year is ₹8.04 lakh, then the income of B last year was:
(a) ₹3.6 lakh (b) ₹2.4 lakh (c) ₹2.7 lakh (d) ₹2.8 lakh
66. 5 years ago, the ratio of the age of A to that of B was 4:5. Five years hence, the ratio of the age of A to that of B will be 6:7. If at present, C is 10 years younger than B, then what will be the ratio of the present age of A to that of C?
(a) 5:4 (b) 3:2 (c) 4:3 (d) 5:3
67. A sum of ₹x is divided among A, B and C such that the ratio of the shares of A and B is 6:7 and that of B and C is 3:2. If the difference the shares of A and C is ₹540, then the value of x is:
(a) 7155 (b) 7290 (c) 7020 (d) 7425
68. A sum is divided among A, B, C and D such that the ratio of the shares of A and B is 2:3, that of B and C is 1:2 and that of C and D is 3:4. If the difference between the shares of A and D is Rs 648, then the sum of their shares is:
(a) Rs 1944 (b) Rs 2484 (c) Rs 2052 (d) Rs 2160
69. In an office, $\frac{5}{8}$ of the total number of employees are males and the rest are females. $\frac{2}{8}$ of the number of males and non-technical workers while $\frac{2}{3}$ of the number of females are technical workers. What fraction of the total number of employees are technical workers?
(a) $\frac{1}{2}$ (b) $\frac{3}{8}$ (c) $\frac{5}{8}$ (d) $\frac{2}{5}$
70. Two numbers are in the ratio 3:5. If 13 is subtracted from each, the new numbers are in the ratio 10:21. If 15 is added to each of the original numbers, then the ratio becomes:
(a) 24 : 35 (b) 4 : 5 (c) 23 : 33 (d) 5 : 7
71. If $(a + b) : (b + c) : (c + a) = 7 : 6 : 5$ and $a + b + c = 27$, then what will be the value of $\frac{1}{a} : \frac{1}{b} : \frac{1}{c}$?
(a) 4 : 3 : 6 (b) 3 : 4 : 2 (c) 3 : 2 : 4 (d) 3 : 6 : 4
72. If 50 less had applied and 25 less selected, the ratio of selected to unselected would have been 9 : 4. So how many candidates had applied if the ratio of selected to unselected was 2 : 1?
(a) 125 (b) 250 (c) 375 (d) 500
73. What is the fourth proportional to 189, 273 and 153?
(a) 117 (b) 299 (c) 221 (d) 187
74. Rs.11,550 has to be divided between X, Y & Z such that X gets $\frac{4}{5}$ of what Y gets and Y gets $\frac{2}{3}$ of what Z gets. How much does Z get over X (in Rs.)?
(a) 7200 (b) 1800 (c) 3650 (d) 2450

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75. Before a battle the ratio of tanks to planes in an army was 5 : 3. During the war 1000 tanks were destroyed and 800 planes were destroyed. The ratio of tanks to planes became 2 : 1. What is the number of tanks after the war.
- (a) 2000 (b) 1000 (c) 3000 (d) 4000
76. The price of a movie ticket was increased in the ratio 9 : 10. What is the increase in the revenue (in Rs.) of the cinema hall, if the original fare was Rs.180 and 2200 tickets were sold?
- (a) 44000 (b) 440000 (c) 39600 (d) 396000
77. If $6A = 4B = 9C$; What is $A : B : C$?
- (a) 6 : 4 : 9 (b) 9 : 4 : 6 (c) 4 : 9 : 6 (d) 6 : 9 : 4
78. How many job applicants had applied if the ratio of selected to unselected was 19 : 17. If 1,200 less had applied and 800 less selected, then the ratio of selected to unselected would have been 1 : 1.
- (a) 6000 (b) 7200 (c) 8400 (d) 4800
79. What is the third proportional to 10 to 20?
- (a) 30 (b) 25 (c) 50 (d) 40
80. The ratio of the sum of the salaries of A and B to the difference of their salaries is 11:1 and the ratio of the sum of the salaries of B and C to the difference of their salaries is also 11 : 1. If A's salary is the highest and C's lowest then what is B's salary (in Rs) given total of all their salaries is Rs.1,82,000?
- (a) 72000 (b) 60000 (c) 50000 (d) 86400
81. The ratio of ages of the father and mother was 11 : 10 when their son was born. The ratio of ages of the father and mother will be 19 : 18 when the son will be twice his present age. What is the ratio of present ages of father and mother?
- (a) 15 : 14 (b) 14 : 13 (c) 16 : 15 (d) 17 : 16
82. Sanjay's test marks in two subjects, English and Hindi are in the ratio 7 : 11. If he got 20 marks more in Hindi than in English, what are his marks in English?
- (a) 35 (b) 55 (c) 45 (d) 64
83. Rizwan has a box in which he kept red and blue marbles. The red marbles and blue marbles were in the ratio 5 : 4. After he lost 5 red marbles the ratio became 10 : 9. How many marbles does he have now?
- (a) 81 (b) 86 (c) 76 (d) 91
84. Find two numbers such that their mean proportional is 18 and the third proportional to them is 144.
- (a) 6 and 42 (b) 9 and 36 (c) 3 and 18 (d) 6 and 12

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85. A purse has Rs.34.5 in the form of 1-rupee, 50-paise and 10-paise coins in the ratio of 6 : 9 : 10. Find the number of 10-paise coins.
(a) 10 (b) 30 (c) 20 (d) 40
86. What number should be added to each of the number 103, 135, 110 and 144 so that the resulting numbers are in proportion?
(a) 12 (b) 15 (c) 9 (d) 6
87. When ticket prices to a water park are increased in the ratio 11:12 then the number of daily visitors to the park fall in the ratio 8 : 7. If the daily revenues before the increase in ticket price was Rs.176,000, then find the daily revenues after increase in ticket price.
(a) 264000 (b) 112000 (c) 192000 (d) 168000
88. The ratio of number of boys to the number of girls in a school of 432 pupils is 5 : 4. When some new boys and girls are admitted, the number of boys increase by 12 and the ratio of the boys to girls changes to 7 : 6. The number of new girls admitted is
(a) 12 (b) 14 (c) 24 (d) 20
89. If the three numbers in the ratio 3 : 2 : 5 be such that the sum of the squares is equal to 1862 then which number is the middle one.
(a) 16 (b) 14 (c) 13 (d) 15
90. The ratio of the number of boys and girls in a school is 3 : 2. If 20% of the boys and 25% of the girls are scholarship holders, the percentage of the school students who are not scholarship holders is
(a) 56 (b) 78 (c) 70 (d) 80
91. In a colored picture of blue and Yellow color, blue and Yellow color is used in the ratio of 4 : 3 respectively. If in upper half, half blue : Yellow is 2 : 3, then in the lower half blue : Yellow is
(a) 1 : 1 (b) 2 : 1 (c) 26 : 9 (d) 9 : 26
92. A sum of Rs.15525 is divided among Sunil, Anil and Jamil such that if Rs.22, Rs.35 and Rs.48 be diminished from their shares respectively, their remaining sums shall be in the ratio 7 : 10 : 13. What would have been the ratio of their sums if Rs. 16, Rs.77, Rs.37 respectively were added to their original shares?
(a) 9 : 13 : 17 (b) 18 : 26 : 25 (c) 36 : 52 : 35 (d) None of these
93. A's income is Rs.140 more than B's income and C's income is Rs.80 more than D's. If the ratio of A's and C's income is 2 : 3 and the ratio of B's and D's income is 1 : 2, then the incomes of A, B, C and D are respectively.
(a) Rs.260, Rs.120, Rs.320 and Rs.240 (b) Rs.300, Rs.160, Rs.600 and Rs.520
(c) Rs.400, Rs.260, Rs.600 and Rs.520 (d) Rs.320, Rs.180, Rs.480 and Rs.360

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94. A and B have their monthly incomes in the ratio 8 : 5 while their monthly expenditures are in the ratio 5 : 3. If they have saves Rs.12,000 and Rs.10,000 monthly respectively, then the difference in their monthly incomes is
- (a) Rs.52,000 (b) Rs.42,000 (c) Rs.44,000 (d) Rs.46,000
95. If $(3x - 2y) : (2x + 3y) = 5 : 6$, then one of the values of $\frac{\sqrt[3]{x} + \sqrt[3]{y}}{\sqrt[3]{x} - \sqrt[3]{y}}$ is
- (a) $\frac{1}{5}$ (b) 5 (c) 25 (d) $\frac{1}{25}$
96. In a school there were 1554 students and the ratio of the number of the boys and girls was 4 : 3. After a few days, 30 girls joined the school but a few boys left; as a result the ratio of the boys and girls became 7 : 6. The number of boys who left the school is
- (a) 76 (b) 74 (c) 84 (d) 86
97. If $A : B = 2 : 3$ and $B : C = 3 : 7$, then $A + B : B + C : C + A$ is
- (a) 4 : 8 : 9 (b) 5 : 8 : 9 (c) 5 : 10 : 9 (d) 4 : 10 : 9
98. If $(x^3 - y^3) : (x^2 + xy + y^2) = 5 : 1$ and $(x^2 - y^2) : (x - y) = 7 : 1$
- (a) 4 : 1 (b) 2 : 3 (c) 4 : 3 (d) 3 : 2
99. If $4x + 5y = 83$ and $3x : 2y = 21 : 22$, then $(y - x)$ equals
- (a) 3 (b) 4 (c) 7 (d) 11
100. A man divides his property so that his son's share to his wife's and wife's share to his daughter's are both as in the ratio 3 : 1. If the daughter gets Rs.10,000 less than son, the value (in rupees) of the whole property is
- (a) Rs.16,250 (b) Rs.16,000 (c) Rs.18,250 (d) Rs.17,000
101. Raju and Lalitha originally had marbles in the ratio 4 : 9. Then, Lalitha gave some of her marbles to Raju. As a result, the ratio of the number of marbles with Raju to that with Lalitha became 5 : 6. What fraction of her original number of marbles was given by Lalitha to Raju?
- (a) $\frac{1}{4}$ (b) $\frac{7}{33}$ (c) $\frac{1}{5}$ (d) $\frac{6}{19}$
102. The strength of a salt solution is p% if 100 ml of the solution contains p grams of salt. If three salt solutions A, B, C are mixed in the proportion 1 : 2 : 3, then the resulting solution has strength 20%. If instead the proportion is 3 : 2 : 1, then the resulting solution has strength 30%. A fourth solution, D, is produced by mixing B and C in the ratio 2 : 7. The ratio of the strength of D to that of A is
- (a) 2 : 5 (b) 1 : 3 (c) 1 : 4 (d) 3 : 10
103. The scores of Amal and Bimal in a examination are in the ratio 11 : 14. After an appeal, their scores increase by the same amount and their new scores are in the ratio 47 : 56. The ratio of Bimal's new score to that of his original score is (CAT 2018)
- (a) 5 : 4 (b) 8 : 5 (c) 4 : 3 (d) 3 : 2

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104. Suppose, $C_1, C_2, C_3, C_4,$ and C_5 are five companies. The profits made by C_1, C_2 and C_3 are in the ratio $9 : 10 : 8$ while the profits made by $C_2, C_4,$ and C_5 are in the ratio $18 : 19 : 20$. If C_5 has made a profit of Rs.19 crores more than C_1 , then the total profit (in Rs.) made by all five companies is
- (a) 438 crores (b) 435 crores (c) 348 crores (d) 345 crores
105. A stall sells popcorn and chips in packets of three sizes: large, super, and jumbo. The numbers of large, super, and jumbo packets in its stock are in the ratio $7 : 17 : 16$ for popcorn and $6 : 15 : 14$ for chips. If the total number of popcorn packets in its stock is the same as that of chips packets, then the numbers of jumbo popcorn packets and jumbo chips packets are in the ratio
- (a) $1 : 1$ (b) $8 : 7$ (c) $4 : 3$ (d) $6 : 5$
106. If a, b, c are three positive integers such that a and b are in the ratio $3 : 4$ while b and c are in the ratio $2 : 1$, then which one of the following is a possible value of $(a + b + c)$?
- (a) 201 (b) 205 (c) 207 (d) 210
107. The cost of diamond varies directly as the square of its weight. Once, this diamond broke into four pieces with weights in the ratio $1 : 2 : 3 : 4$. When the pieces were sold, the merchant got Rs.70,000 less. Find the original price of the diamond.
- (a) Rs.1.4 lakh (b) Rs.2 lakh (c) Rs.1 lakh (d) Rs.2.1 lakh
108. In a locality, two-thirds of the people have cable TV, one-fifth have VCR, and one-tenth have both. What is the fraction of people having either cable – TV or VCR?
- (a) $19/30$ (b) $2/3$ (c) $17/30$ (d) $23/30$
109. The number of boys in a school was 30 more than the number of girls. Subsequently, a few more girls joined the same school. Consequently, the ratio of boys and girls became $3 : 5$. Find the minimum number of girls, who joined subsequently.
- (a) 31 (b) 51 (c) 52 (d) 55 (e) Solutions not possible
110. $\frac{1}{25}$ of the students who registered did not appear for the examination, $\frac{11}{20}$ of those who appeared passed. If the number of registered students is 2000, the number who passed is
- (a) 1920 (b) 1056 (c) 1020 (d) 864
111. If $A : B = 1 : 2, B : C = 3 : 4, C : D = 2 : 3$ and $D : E = 3 : 4$, then what is $B : E$ equal to?
- (a) $3 : 2$ (b) $1 : 8$ (c) $3 : 8$ (d) $4 : 1$
112. Rs.120 is distributed among A, B and C so that A's share is Rs.20 more than B's and Rs.20 less than C's. What is B's share?
- (a) Rs.10 (b) Rs.15 (c) Rs.20 (d) Rs.25

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113. The age of a woman is a two-digit integer. On reversing this integer, the new integer is the age of her husband who is elder to her. The difference between their ages is one-eleventh of their sum. What is the difference between their ages?
(a) 8 yr (b) 9 yr (c) 10 yr (d) 11 yr
114. The sum of ages of a father, a mother, a son Sonu and daughters Savita and Sonia is 96 yr. Sonu is the youngest member of the family. The year Sonu was born, the sum of the ages of all the members of the family was 66 yr. If the father's age now is 6 times that of Sonu's present age, then 12 yr. Hence, the father's age will be
(a) 44 yr (b) 45 yr (c) 46 yr (d) 48 yr
115. Ten (10) years before, the ages of a mother and her daughter were in the ratio 3 : 1. In another 10 yr. from now, the ratio of their ages will be 13 : 7. What are their present ages?
(a) 39 yr, 21 yr (b) 55 yr, 25 yr (c) 75 yr, 25 yr (d) 49 yr, 31 yr
116. If $A : B = 3 : 4$, then what is the value of the expression $\left(\frac{3A^2 + 4B}{3A - 4B^2}\right)$?
(a) $\frac{43}{55}$ (b) $-\frac{43}{55}$ (c) $\frac{47}{55}$ (d) Cannot be determined
117. Leela got married 6 years ago. Today her age is $1\frac{1}{4}$ times her age at the time of her marriage her son's age is $\frac{1}{10}$ times her age. What is the present age of her son?
(a) 1 year (b) 2 years (c) 3 years (d) 4 years
118. Five years ago, Ram was three times as old as Shyam. Four years from now, Ram will be only twice as old as Shyam. What is the present age of Ram?
(a) 30 years (b) 32 years (c) 36 years (d) 40 years
119. There are 350 boys in the first three standards. The ratio of the number of boys in first and second standards is 2 : 3, while that of boys in second and third standards is 4 : 5. What is the total number of boys in first and third standards?
(a) 302 (b) 280 (c) 242 (d) 230
120. In an office, one-third of the workers are women, half of the women are married and one-third of the married women have children. If three-fourth of the men are married and one-third of the married men have children, then what is the ratio of married women to married men?
(a) 1 : 2 (b) 2 : 1 (c) 3 : 1 (d) 1 : 3
121. Incomes of Mahesh and Kamal are in ratio 1 : 2 and their expenses are in ratio 1 : 3. Which one of the following statements is correct?
(a) Mahesh saves more than what Kamal saves (b) Savings of both of them are equal
(c) Kamal saves more than what Mahesh saved (d) It is not possible to determine who saves more

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ANSWERS

1)	D	22)	C	43)	B	64)	B	85)	B	106)	C
2)	D	23)	A	44)	A	65)	C	86)	C	107)	-
3)	A	24)	C	45)	D	66)	A	87)	D	108)	-
4)	A	25)	B	46)	B	67)	A	88)	C	109)	C
5)	C	26)	B	47)	A	68)	C	89)	B	110)	B
6)	A	27)	B	48)	A	69)	C	90)	B	111)	C
7)	A	28)	B	49)	B	70)	A	91)	C	112)	C
8)	D	29)	B	50)	C	71)	A	92)	C	113)	B
9)	C	30)	A	51)	C	72)	C	93)	C	114)	D
10)	B	31)	A	52)	C	73)	C	94)	B	115)	B
11)	C	32)	B	53)	C	74)	D	95)	C	116)	D
12)	D	33)	D	54)	C	75)	A	96)	A	117)	C
13)	A	34)	B	55)	A	76)	A	97)	C	118)	B
14)	A	35)	B	56)	A	77)	D	98)	A	119)	D
15)	B	36)	C	57)	D	78)	B	99)	B	120)	D
16)	A	37)	D	58)	C	79)	D	100)	A	121)	D
17)	C	38)	C	59)	D	80)	B	101)	B		
18)	C	39)	A	60)	C	81)	A	102)	B		
19)	A	40)	B	61)	D	82)	A	103)	C		
20)	C	41)	C	62)	C	83)	C	104)	A		
21)	A	42)	C	63)	C	84)	B	105)	A		

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