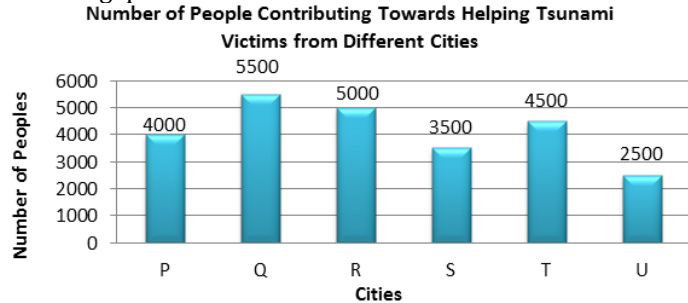


NUMERICAL ABILITY

Directions (36-40) Study the graph carefully to answer the following questions.



36. How many more people from City S would have made the ratio 11 : 9 between the number of people contributing from Cities S and T respectively?
(a) 1500 (b) 2000 (c) 5500
(d) 3500 (e) None of these
37. Number of people contribution from Cities Q and U together forms what percent of the total number of people contributing from the given cities?
(a) 30 (b) 36 (c) 32
(d) 38 (e) None of these
38. Number of people contributing from how many cities forms less than 18% of the total number of people contributing from all cities together?
(a) 3 (b) 4 (c) 2
(d) 1 (e) None of these
39. Approximately by the what percent number of people contributing from City T are more in comparison to the people contributing from City S?
(a) 38 (b) 18 (c) 22
(d) 29 (e) 34
40. What is the respective ratio between number of people contributing City P to those from City R?
(a) 5 : 4 (b) 4 : 7 (c) 7 : 4
(d) 5 : 9 (e) None of these
- Directions (41-50):** What should come in place of question mark (?) in the following given questions?
41. $56 + 12 \times 0.45 - 3 = ?$
(a) 28.5 (b) 47.6 (c) 86.6
(d) 58.4 (e) None of these
42. $5982 + 1345 + 736 - ? = 4588 + 992$
(a) 2485 (b) 2480 (c) 2473
(d) 2467 (e) None of these
43. $(31)^{31} \times (31)^{-27} = ?$
(a) $(961)^2$ (b) 4 (c) $(31)^2$
(d) 29791 (e) None of these
44. $666.66 + 66.66 + 6.66 + 6 + 0.66 = ?$
(a) 746.64 (b) 764.64 (c) 766.64
(d) 744.54 (e) None of these
45. $(9.11\% \text{ of } 936) - (12.5\% \text{ of } 498) = ?$
(a) 22.0176 (b) 21.0186 (c) 23.0196
(d) 19.0206 (e) None of these
46. $8648 - 7652 = ? \times 40$
(a) 24.7 (b) 28.9 (c) 27.4
(d) 25.9 (e) None of the above
47. $683.46 - 227.39 - 341.85 = ?$
(a) 114.22 (b) 141.22 (c) 144.22
(d) 112.22 (e) None of the above
48. Solve $\frac{(999+588)^2 - (999-588)^2}{999 \times 588}$
(a) 8 (b) 3 (c) 2
(d) 4 (e) None of the above
49. $\frac{\frac{1}{5} + 1000 \times 99}{4} = ?$
(a) 25000 (b) 24225 (c) 24800
(d) 24750 (e) 24650
50. The value of $\frac{52^2 - (47)^2}{99}$ is
(a) 5 (b) 6 (c) 4
(d) 7 (e) 8
- Directions (51-55):** What will come in place of the question mark (?) in the following number series?
51. 30, 35, 65, 100, 165, 265, ?
(a) 270 (b) 520 (c) 430
(d) 395 (e) None of these
52. 3, 5, 7, ?, 13, 17, 21
(a) 9 (b) 10 (c) 11
(d) 8 (e) None of these
53. 16, 17, 15, 18, 14, ?
(a) 10 (b) 17 (c) 18
(d) 20 (e) None of these
54. 3125, 256, ?, 4, 1
(a) 27 (b) 128 (c) 64
(d) 32 (e) None of these
55. 2, 3, 6, 18, 108, ?
(a) 126 (b) 1944 (c) 430
(d) 395 (e) None of these
56. The area of paper can be divided into 144 squares, but if the dimensions of each square were reduced by 2 cm each, then the number of squares so formed are 400. The area of the paper initially was:
(a) 544 cm² (b) 1444 cm² (c) 3600 cm²
(d) 2476 cm² (e) None of these
57. The average weight of all the 11 players of India cricket team is 50 kg. If the average of first six lightest weight players is 49 kg and that of the six heaviest players is 52 kg. The average weight of the player which lies in the sixth position in the list of players when all the 11 players are arranged in the order of increasing or decreasing weights :
(a) 56 kg (b) 52 kg (c) 51 kg

- (d) 65 kg (e) None of these
58. The average weight of boys in a class is 30 kg and the average weight of girls in the same class is 20 kg. If the average weight of the whole class is 23.25 kg, what could be the possible strength of boys and girls respectively in the same class?
 (a) 14 and 26 (b) 13 and 27 (c) 17 and 27
 (d) 19 and 21 (e) None of these
59. A profit of 8% is made by selling a shirt after offering a discount of 12%. If the marked price of the shirt is Rs.1080, find its cost price
 (a) 890 (b) 780 (c) 880
 (d) 900 (e) none of these
60. A hotel incurs two type of expenses, one which is fixed and others depend upon no. of guests. When there are 10 guests, total expenses of hotel are Rs. 6000. Also when there are 25 guests average expenses per guests are Rs. 360? What is the total expenses of hotel when there are 40 guests?
 (a) Rs. 8,000 (b) Rs. 12,000 (c) Rs. 15,500
 (d) Rs. 16,000 (e) None of these
61. Raju can do a piece of work in 10 days, Vicky in 12 days and Tinku in 15 days. They all start the work together, but Raju leaves after 2 days and Vicky leaves 3 days before the work is completed. In how many days is the work completed?
 (a) 5 days (b) 6 days (c) 7 days
 (d) 8 days (e) 9 days
62. In how many years will Rs.2200 amount to Rs.2266 when money is borrowed at 2% per annum at simple interest?
 (a) $2\frac{1}{2}$ (b) 2 (c) $1\frac{1}{2}$
 (d) 3 (e) None of these
63. A and B are two partners and they have invested Rs. 54,000 and Rs. 90,000 in a business. After one year A received Rs. 1800 as his share of profit out of total profit of Rs. 3600 including his certain commission on total profit since he is a working partner and rest is received by B. What is the commission of A as a percentage of the total profit?
 (a) 20% (b) 10% (c) 5%
- (d) 25% (e) 36%
64. A shopkeeper sold an article for Rs.1,380 at a loss of 8%. At what price should it be sold to gain a profit of 8%?
 (a) Rs. 1560 (b) Rs. 1620 (c) Rs. 1680
 (d) Rs. 1740 (e) None of these
65. There are a certain number of rows of chairs in a room. The number of chairs in each row is thrice the total number of rows. Find the number of chairs in each row if the total number of chairs is 2187.
 (a) 27 (b) 81 (c) 243
 (d) 72 (e) None of these
66. A man had two sons. To the older he gave $\frac{5}{11}$ of his property, to the younger $\frac{5}{11}$ of remainder, the rest to the widow. Find the Share of the sons if the widow gets `3600.
 (a) 1200, 1000 (b) 6000, 2000 (c) 7500, 1000
 (d) 2800, 6500 (e) None of these
67. A and B started a business with initial investments in the ratio 5 : 7. If after one year their profits were in the ratio 1 : 2 and the period for A's investment was 7 months, B invested the money for
 (a) 6 months (b) $2\frac{1}{2}$ months (c) 10 months
 (d) 4 months (e) 7 months
68. The difference between $\frac{4}{5}$ of a number and 45% of the number is 56. What is 65% of the number?
 (a) 96 (b) 104 (c) 112
 (d) 120 (e) None of these
69. The cost of production of a cordless phone set in 2002 is `900, divided between material, labour and overheads in the ratio 3 : 4 : 2. If the cordless phone set is marked at a price that gives a 20% profit on the component of price accounted for by labour, what is the marked price of the set?
 (a) 980 (b) 1080 (c) 960
 (d) 875 (e) None of these
70. Subhash can copy 50 pages in 10 hours; Subhash and Prakash together can copy 300 pages in 40 hours. In how much time can Prakash copy 30 pages?
 (a) 13 h (b) 12 h (c) 11 h
 (d) 9 h (e) 10 h