

Quantitative Aptitude

Directions (Q. 51–65) What should come in place of question mark (?) in the following questions ?

51. $9.348 - 2.563 + 3.884 + 1.673 = ?$
 (1) 18.454 (2) 16.786
 (3) 14.560 (4) 12.342
 (5) None of these
52. $5\frac{17}{18} \times 2\frac{10}{11} \div \frac{8}{33} = ?$
 (1) $34\frac{3}{11}$ (2) $12\frac{49}{66}$
 (3) $71\frac{1}{3}$ (4) $55\frac{7}{8}$
 (5) None of these
53. $53 + 27 \times 0.35 = ?$
 (1) 62.45 (2) 78.90 (3) 45.67
 (4) 83.43 (5) None of these
54. $(72)^2 + (61)^2 = (199)^2 - (?)^2 - 420$
 (1) 165 (2) 198 (3) 182
 (4) 174 (5) None of these
55. $[(144)^2 \div 48 \times ?] \div 22 = 216$
 (1) 23 (2) 16 (3) 11
 (4) 32 (5) None of these
56. $1802 \div 34 \div 5 = \sqrt{?}$
 (1) 10.6 (2) 114.49 (3) 11.4
 (4) 110.25 (5) None of these
57. $(562.038 + 838.734) \div 3 = ?$
 (1) 466.924 (2) 654.843
 (3) 546.897 (4) 386.124
 (5) None of these
58. 20.3% of 530 + 16.8% of 225 = ?
 (1) 123.27 (2) 145.39
 (3) 165.49 (4) 186.57
 (5) None of these
59. $99.9 + 9.99 + 0.99 + 99.09 + 9.09 + 999 = ?$
 (1) 1123.06 (2) 1218.06
 (3) 1345.06 (4) 1440.06
 (5) None of these
60. $(12)^2 + (?)^2 + (7)^2 = 274$
 (1) 81 (2) 28
 (3) 11 (4) 9
 (5) None of these
61. $2817 \times ? = 626$
 (1) $\frac{1}{2}$ (2) $\frac{3}{4}$ (3) $\frac{2}{9}$
 (4) $\frac{3}{5}$ (5) None of these
62. $4172 + 593 - ? = 3069$
 (1) 1666 (2) 1669
 (3) 1996 (4) 1969
 (5) None of these

63. $(4.75\% \text{ of } 240) - (0.85\% \text{ of } 356) = ?$

- (1) 8.374 (2) 9.456
 (3) 11.346 (4) 13.892
 (5) None of these

64. $(19)^{29} \times (19)^{-27} = ?$

- (1) 2 (2) 361 (3) 19
 (4) 6859 (5) None of these

65. $361 \times ? \times 11 = 428868$

- (1) 105 (2) 107 (3) 109
 (4) 111 (5) None of these

Directions (Q. 66–70) What **approximate** value should come in place of question mark (?) in the following questions ? (You are not expected to calculate the exact value)

66. $\sqrt{64000} = ?$

- (1) 253 (2) 267
 (3) 231 (4) 244
 (5) 274

67. $(563\% \text{ of } 808) + 129 = ?$

- (1) 63 (2) 19
 (3) 35 (4) 47
 (5) 51

68. $(632.46)^2 = ?$

- (1) 400000 (2) 4000000
 (3) 405000 (4) 395000
 (5) 380000

69. $53864 \times 68 = ? \times 41548$

- (1) 76 (2) 64
 (3) 52 (4) 88
 (5) 102

70. $(629.715 - 238.938) \times 8.451 = ?$

- (1) 3825 (2) 4175
 (3) 4500 (4) 2950
 (5) 3300

Directions (Q. 71–75) Study the table carefully to answer the questions that follow.

Quantity of Food-Items Consumed by Various Hotels Over a Month (In kilograms/litres)

Hotels →	A	B	C	D	E	F
Food Items ↓						
Oil	480	524	490	387	266	342
Vegetables	434	387	625	432	375	387
Sugar	436	512	463	476	449	533
Tea	120	100	78	94	108	114
Coffee	68	54	78	28	65	83
Rice	800	1098	890	960	764	698
Wheat	756	882	785	907	888	998

71. The total quantity of Food Items consumed by Hotel C is **approximately** what per cent of the total quantity of Food Items consumed by Hotel E ?
 (1) 128 (2) 101
 (3) 93 (4) 136
 (5) 117
72. What is the respective ratio of quantity of Sugar and Coffee consumed by Hotel D to Hotel F ?
 (1) 9 : 11 (2) 9 : 13
 (3) 11 : 9 (4) 13 : 17
 (5) None of these
73. The quantity of Rice consumed by Hotel A is **approximately** what per cent of the quantity of Rice consumed by all the Hotels together ?
 (1) 12 (2) 19
 (3) 15 (4) 23
 (5) 27
74. What is the respective ratio of the average quantity of Wheat consumed by all the Hotels together to the average quantity of Vegetables consumed by all the Hotels together over the month ?
 (1) 316 : 167 (2) 23 : 16
 (3) 167 : 328 (4) 326 : 165
 (5) 2 : 3
75. Which Hotel consumed the highest quantity of the total food items over the month ?
 (1) A (2) B
 (3) C (4) D
 (5) None of these
- Directions (Q. 76–90)** What should come in place of question mark (?) in the following number series ?
76. 649.6875 1299.375 866.25 346.5 99 22 ?
 (1) 4 (2) 7
 (3) 10 (4) 12
 (5) None of these
77. 30 16 10 8 8 9 ?
 (1) 12.75 (2) 13
 (3) 14 (4) 10.5
 (5) None of these
78. 10 18 63 253 1137 5901 ?
 (1) 39754 (2) 35749
 (3) 37594 (4) 35794
 (5) None of these
79. 11 26 58 124 258 528 ?
 (1) 1020 (2) 1135
 (3) 1285 (4) 1340
 (5) None of these
80. 738 765 819 900 1008 1143 ?
 (1) 1445 (2) 1565
 (3) 1305 (4) 1275
 (5) None of these
81. What is 35% of 65% of $\frac{10}{11}$ th of 5280 ?
 (1) 1092 (2) 1186
 (3) 1224 (4) 1368
 (5) None of these
82. In a class of 80 students and 5 teachers, each student got sweets that are 15% of the total number of students and each teacher got sweets that are 25% of the total number of students. How many sweets were there ?
 (1) 1030 (2) 1040
 (3) 1050 (4) 1060
 (5) None of these
83. The product of two successive even numbers is 6888. Which is the greater of the two numbers ?
 (1) 78 (2) 82
 (3) 86 (4) 90
 (5) None of these
84. By how much is $\frac{7}{9}$ th of 234 lesser than $\frac{10}{13}$ th of 247 ?
 (1) 12 (2) 26
 (3) 38 (4) 14
 (5) None of these
85. Bhawna decided to donate 12% of her salary to an Orphanage. On the day of donation she changed her mind and donated ₹ 2400 which was 125% of what she had decided earlier. How much is Bhawna's salary ?
 (1) ₹ 14750 (2) ₹ 16000
 (3) ₹ 18500 (4) Cannot be determined
 (5) None of these
86. Gaurav spent ₹ 38460 on the renovation of his home, ₹ 24468 on buying home theater and the remaining 28% of the total amount he had as cash with him. What was the total amount ?
 (1) ₹ 92600 (2) ₹ 76500
 (3) ₹ 87400 (4) Cannot be determined
 (5) None of these
87. Which number should replace both the question marks in the following equation ?

$$\frac{?}{944} = \frac{59}{?}$$

 (1) 218 (2) 236
 (3) 244 (4) 264
 (5) None of these
88. The ages of Ranjana and Rakhi are in the ratio of 15 : 17 respectively. After 6 yr the ratio of their ages will be 9 : 10. What will be the age of Ranjana after 6 yr ?
 (1) 40 yr (2) 30 yr
 (3) 34 yr (4) 36 yr
 (5) None of these
89. One-seventh of a number is 38. What will 63% of that number be ?
 (1) 174.56 (2) 189.42
 (3) 167.58 (4) 204.32
 (5) None of these
90. The simple interest accrued on an amount of ₹ 17000 at the end of four years is ₹ 6800. What would be the compound interest accrued on the same amount at the same rate in the same period ?
 (1) ₹ 7889.7 (2) ₹ 8324
 (3) ₹ 6990.5 (4) Cannot be determined
 (5) None of these

Directions (Q. 91–95) Study the table carefully to answer the questions that follow.

Organizations →	A	B	C	D	E
Years ↓					
2001	247	298	197	388	281
2002	324	385	225	432	275
2003	331	412	263	406	349
2004	375	404	377	454	406
2005	345	323	396	440	445
2006	400	356	432	418	512

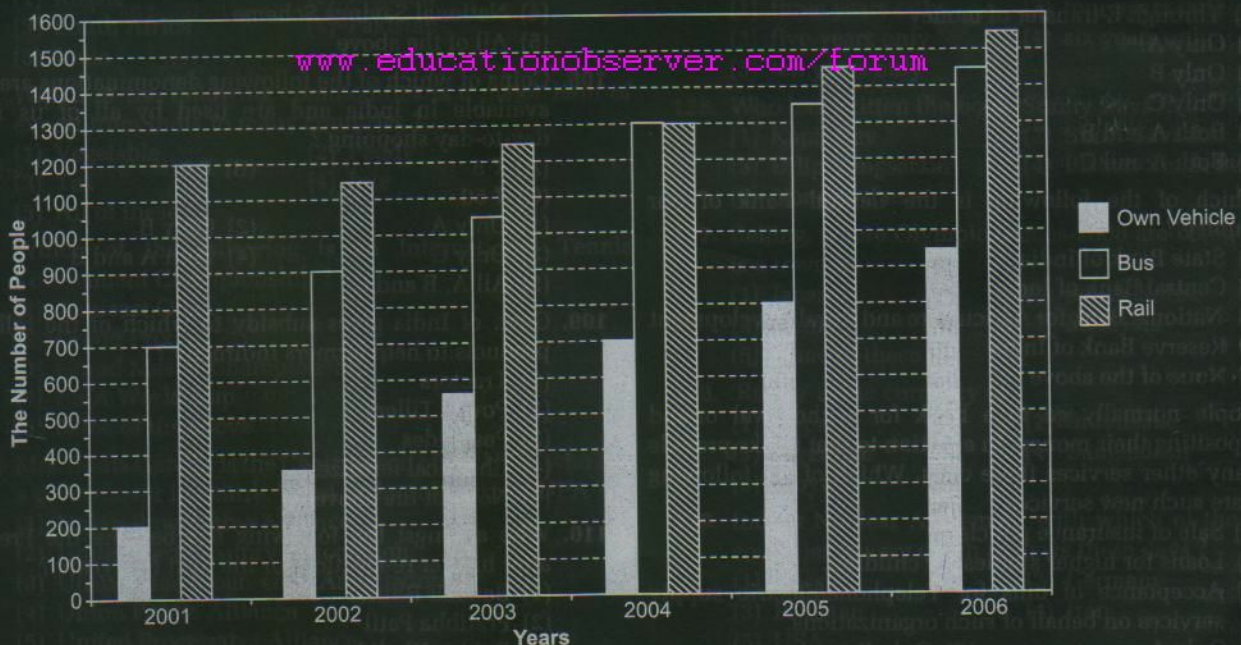
91. What is the respective ratio of number of employees working in Organization A to the number of employees working in Organization E in the year 2006 ?
 (1) 25 : 32 (2) 22 : 39
 (3) 12 : 19 (4) 2 : 3
 (5) None of these
92. What is the difference between the total number of employees working in Organization B over the given years and the total number of employees working in Organization D over the given years ?
 (1) 345 (2) 360

- (3) 357 (4) 374
 (5) None of these

93. What is the difference between the average number of employees working in Organization A over the given years and the average number of employees working in Organization C over the given years ?
 (1) 30 (2) 34
 (3) 22 (4) 26
 (5) None of these
94. What is the average number of employees working in the Organization D over the given years ?
 (1) 438 (2) 359
 (3) 378 (4) 423
 (5) None of these
95. The number of employees working in Organization C in the year 2004 is **approximately** what per cent of the total number of employees working in various Organizations in that year ?
 (1) 13 (2) 23
 (3) 27 (4) 35
 (5) 20

Directions (Q. 96–100) Study the graph carefully to answer the questions that follow.

Preferences of People (In thousands)
In Using Different Modes of Transport Over the Years



96. From 2001 to 2006, the total number of people who preferred to travel by rail, was how many thousands ?
 (1) 7900 (2) 8300
 (3) 9100 (4) 6300
 (5) None of these
97. What is the respective ratio of the number of people preferring to travel by rail in 2006 to the number of people preferring to travel by rail in 2002 ?
 (1) 31 : 27 (2) 31 : 23

- (3) 23 : 31 (4) 27 : 31
 (5) None of these

98. In the year 2003, if all the buses reduced their rates by 40% and 50% of the people who preferred to travel by rail, now preferred buses, then how many people (in thousands) prefer to travel by bus ?
 (1) 1750 (2) 1569
 (3) 1458 (4) 1675
 (5) None of these

99. What is the respective ratio of the number of people preferring to travel by bus to the number of people preferring to travel by rail in the year 2005 ?

- (1) 29 : 27 (2) 9 : 10
(3) 27 : 29 (4) 23 : 27
(5) None of these

100. In 2003, the people preferring to travel by bus represented **approximately** what per cent of the people preferring to travel by own vehicles, buses and rails together in that year ?

- (1) 46 (2) 54 (3) 22
(4) 14 (5) 37