Numerical Ability

Directions (36-40): What will come in the place of question mark (?) in the following number series:

36. 11,   ?,   16,   21,   29,   41
    (a) 12
    (b) 14
    (c) 15
    (d) 13
    (e) 11

37. 1800,   ?,   60,   15,   5,   2.5
    (a) 300
    (b) 600
    (c) 120
    (d) 240
    (e) 360

38. 4,   3,   4,   9,   32,   ?
    (a) 75
    (b) 155
    (c) 125
    (d) 175
    (e) 165

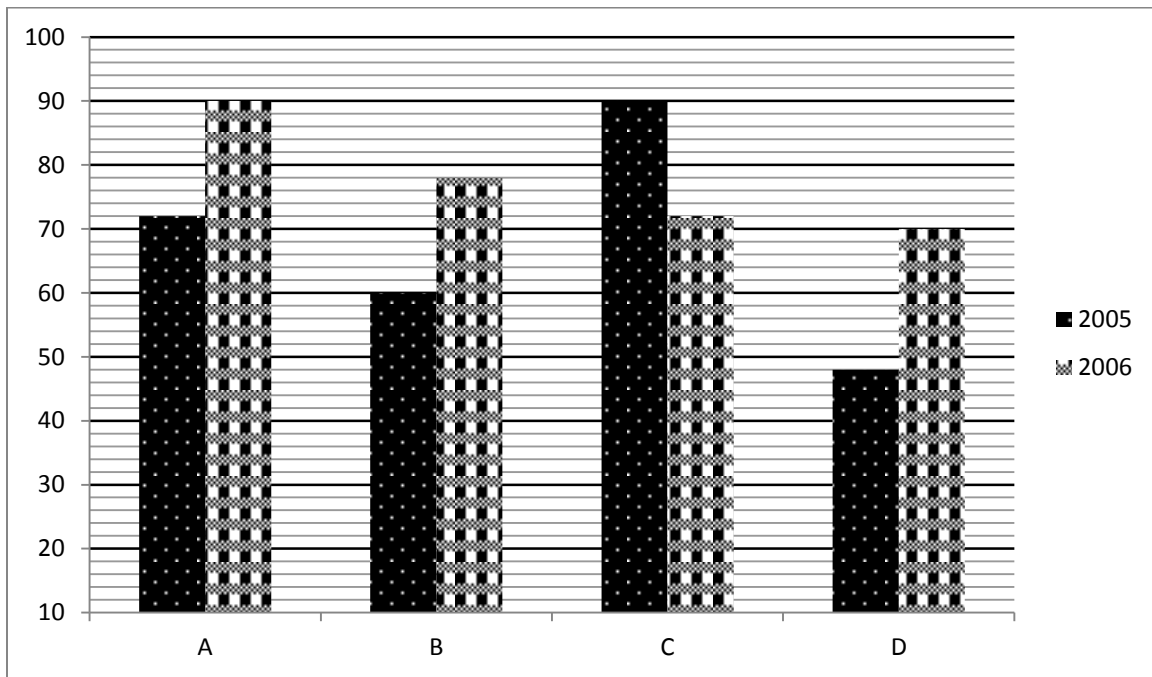39. ?,   100,   150,   375,   1312.5
    (a) 50
    (b) 100
    (c) 75
    (d) 25
    (e) 200

40. 0,   6,   24,   60,   ?,   210
    (a) 130
    (b) 170
    (c) 90
    (d) 120
    (e) 150

Directions (41-45): Study the bar chart given below and answer the following questions.

Bar chart shows the number of books read by 4 different persons (A, B, C & D) in 2005 and 2006.

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41. Find average number of books read by A, C & D in 2005.
    (a) 64
    (b) 70
    (c) 75
    (d) 60
    (e) 56
42. Find ratio of books read by B & C together in 2005 to books read by A & D together in 2006.
    (a) 15 : 16
    (b) 5 : 6
    (c) 1 : 5
    (d) 4 : 7
    (e) 2 : 3
43. Books read by A & D together in 2005 are what percent more than books read by C in 2006?
    (a) $46\frac{2}{3}\%$
    (b) $54\frac{1}{3}\%$
    (c) $25\frac{2}{3}\%$
    (d) $33\frac{1}{3}\%$
    (e) $66\frac{2}{3}\%$
44. Books read by A & C together in 2005 are how much more or less than books read by B & D together in 2006?
    (a) 24
    (b) 14
    (c) 18
    (d) 22
    (e) 28

45. Books read by B & C together in 2006 are what percent of books read by B in 2005?
    (a) 100%
    (b) 120%
    (c) 250%
    (d) 200%
    (e) 160%

Directions (46-55): - What will come in place of (?) question mark in the following questions?

46. $\frac{17.28 \div ?}{3.6 \times 0.2} = 200$
    (a) 120
    (b) 1.20
    (c) 12
    (d) 0.12
    (e) None of these

47. $486 \div ? \times 7392 \div 66 = 1008$
    (a) 54
    (b) 55
    (c) 52
    (d) 53
    (e) 51

48. $14\frac{2}{7}\% \text{ of } 4200 \div \sqrt{576} = (?)^{\frac{1}{2}}$
    (a) 125
    (b) 225
    (c) 25
    (d) 5
    (e) 625

49. $\frac{2}{7} \times \frac{5}{6} \times \frac{3}{8} \times ? = 90$
    (a) 1208
    (b) 1108
    (c) 1008
    (d) 1128
    (e) 1348

50. $(0.05 \times 6.25) \div 2.5 = ?$
    (a) 12.55
    (b) 0.125
    (c) 0.115
    (d) 1.25
    (e) None of these

51. $1496 \div 17 = ?\% \text{ of } 220$
    (a) 25
    (b) 40
    (c) 50
    (d) 75
    (e) None of these

52. (36% of 180) ÷ 0.4 = ?
    (a) 160
    (b) 164
    (c) 166
    (d) 162
    (e) 180
53. 0.08% of 55500 – 16.4 = ?
    (a) 26.6
    (b) 28
    (c) 29.2
    (d) 30.4
    (e) 32
54. 35% of 150 × 16 = ? – 22
    (a) 865
    (b) 932
    (c) 864
    (d) 862
    (e) None of these
55. (3080 + 6160) ÷ ? = 330
    (a) 26
    (b) 22
    (c) 28
    (d) 29
    (e) 18
56. Difference of the compound interest received in first year and second year at 20% per annum at CI is Rs 1200 then find the sum?
    (a) Rs 25,000
    (b) Rs 36,000
    (c) Rs 35,000
    (d) Rs 24,000
    (e) Rs 30,000
57. Find the total distance covered by boat in each upstream and downstream in 7 hours if the speed of boat in still water and speed of current is 21 km/h and 3 km/h respectively?
    (a) 280 km
    (b) 294 km
    (c) 315 km
    (d) 301 km
    (e) 322 km
58. Ratio of income of A to that of B is 5:9. If expenditure of

A is $\frac{3}{8}$th of his income and expenditure of B is $\frac{4}{9}$th of his income and sum of their saving is Rs 1950 then find the difference between their income?
(a) Rs 900
(b) Rs 1000
(c) Rs 880
(d) Rs 960
(e) Rs 920

59. A alone can do a work in 12 days while A and B together can do that work in 7.5 days. Find the time taken by C alone to do that work if C takes 3 days more than that of B alone to do that work?
(a) 33 days
(b) 30 days
(c) 23 days
(d) 27 days
(e) 28 days

60. Ratio of base and perpendicular side of a right-angled triangle is 3:4 and its base is equal to the side of a square having area 81 cm². Find the perimeter of the triangle?
(a) 30 cm
(b) 36 cm
(c) 33 cm
(d) 42 cm
(e) 40 cm

Directions (61-65): In each of these questions, two equations (I) and (II) are given. You have to solve both the equations and give answer
(a) if x>y
(b) if x≥y
(c) if x<y
(d) if x ≤y
(e) if x = y or no relation can be established between x and y.

61. I. x^2 - 13x + 40 = 0
    II. $2y^2$ - y – 15 = 0
62. I. $5x^2$ + 17x + 6 = 0
    II. $2y^2$ + 11y + 12 = 0
63. I. $7x^2$ - 19x + 10 = 0
    II. $8y^2$ + 2y – 3 = 0
64. I. $x^2 − 8x + 15 = 0$
    II. $y^2 − 3y + 2 = 0$
65. I. $3x^2$ –7x + 4 = 0
    II. $2y^2$ – 9y + 10 = 0

66. A person travels half of the distance at the speed of x km/h and remaining half of the distance at 4x km/h. Find the value of 'x' if the average speed is 36.8 km/h?
(a) 21
(b) 25
(c) 24
(d) 23
(e) 20

67. A, B and C invested in a ratio of 7: 8: 5 in a business. They got an annual profit of Rs. 136800. If A and C withdrew their amount at the end of 3 months and 7 months respectively. Then find the difference between A and C's share of profit?
    (a) Rs. 12,600
    (b) Rs. 11,500
    (c) Rs. 13,500
    (d) Rs. 10,500
    (e) Rs. 13,000

68. Retailer sold one article at $33\frac{1}{3}\%$ profit and another at 100% profit. Find his overall profit percentage if the selling price of both the article is same?
    (a) 60%
    (b) 55%
    (c) $66\frac{2}{3}\%$
    (d) 75%
    (e) $56\frac{2}{3}\%$

69. A mixture has milk and water in the ratio 4: 1. When 50% of the mixture is taken out and replaced by 24 liters of water then the ratio of milk to water in the mixture becomes 1: 1. Find initial quantity of mixture.
    (a) 80 liters
    (b) 45 liters
    (c) 70 liters
    (d) 60 liters
    (e) 75 liters

70. 4 years ago, ratio of Shivam's age to Deepak's age was 2: 3 and ratio of Shivam's age 4 years ago to Deepak's age 5 years hence is 8: 15. Find present age of Shivam.
    (a) 32 years
    (b) 28 years
    (c) 40 years
    (d) 24 years
    (e) 36 years

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