

SBI Clerk Prelims 2020 – Quantitative Aptitude

Directions (36-40): Table given below shows the number of male and female participated in an event from five different schools (A, B, C, D & E). Study the table carefully and answer the following questions.

| Schools | Male | Female |
|---------|------|--------|
| A | 650 | 450 |
| B | 540 | 420 |
| C | 720 | 500 |
| D | 560 | 450 |
| E | 680 | 320 |

- 36.** Find average number of female participated from school – A, B & D.
 (a) 400 (b) 380 (c) 350
 (d) 440 (e) 450
- 37.** Total male participated from school – B & D together are how much more or less than total female participated from school – A & C together?
 (a) 150 (b) 110 (c) 170
 (d) 120 (e) 240
- 38.** Total male participated from school – B & C together are what percent more or less than total female participated from school – A & D together?
 (a) 20% (b) 60% (c) 50%
 (d) 40% (e) 30%
- 39.** If total male participated from school – F are 40% more than that of from school – A and ratio of female participated from school – B to that of from school – F is 21:32, then find total students participated from school – F.
 (a) 1420 (b) 1550 (c) 1580
 (d) 1460 (e) 1490
- 40.** Find total number of male students participated from all the five schools together.
 (a) 2860 (b) 3150 (c) 2940
 (d) 3200 (e) 3020

Direction (41-45): What will come in the place of question (?) mark in following number series:

- 41.** ?, 100, 150, 375, 1312.5
 (a) 100 (b) 200 (c) 150
 (d) 400 (e) 50
- 42.** 104, ?, 96, 120, 88, 128
 (a) 112 (b) 110 (c) 114
 (d) 118 (e) 108
- 43.** 15, 8, 9, 15, 32, ?
 (a) 66 (b) 99 (c) 80
 (d) 82.5 (e) 80.5

- 44.** 6, 8, 14, 26, 46, ?
 (a) 72 (b) 84 (c) 96
 (d) 80 (e) 76
- 45.** 72000, 36000, 12000, 3000, 600, ?
 (a) 120 (b) 200 (c) 300
 (d) 150 (e) 100
- 46.** 12 men can do a work in 10 days while 10 women can do the same work in 18 days. In how many days 4 men & 6 women together can do the same work?
 (a) $\frac{120}{7}$ days (b) 24 days (c) $\frac{180}{13}$ days
 (d) 15 days (e) 18 days
- 47.** A car can cover a distance in 4 hour at speed 60 kmph then by what percent should the speed of car be increased to cover the same distance in 2.5 hr?
 (a) 60% (b) 40% (c) 50%
 (d) 100% (e) 75%
- 48.** The ratio of the ages of Ram and Rahim 10 years ago was 1 : 3. The ratio of their ages five years hence will be 2 : 3. Then, the ratio of their present ages is :
 (a) 1 : 2 (b) 3 : 5 (c) 3 : 4
 (d) 2 : 5 (e) None of these
- 49.** Two trains of length 140m & 120m are running in same direction on parallel tracks with speeds 132 kmph & 80 kmph respectively. How much time will they take to cross each other?
 (a) 7.09 sec (b) 18 sec (c) 11.7 sec
 (d) 4.42 sec (e) Cannot be determined
- 50.** A person sold a book at 20% profit. If he had bought it at 10% less cost and sold for Rs 90 more then he would have gained 40% profit. Find cost price of book.
 (a) Rs 800 (b) Rs 1600 (c) Rs 1500
 (d) None of these (e) Rs 1200

Direction (51-55): In each question two equations numbered (I) and (II) are given. You have to solve both the equations and mark appropriate answer.

- (a) If $x = y$ or no relation can be established
 (b) If $x > y$
 (c) If $x < y$
 (d) If $x \geq y$
 (e) If $x \leq y$
- 51.** I. $x = \sqrt{25}$ II. $y^3 = 125$
- 52.** I. $x^2 + 2x - 35 = 0$ II. $y^2 + 15y + 56 = 0$
- 53.** I. $x^2 = 81$ II. $y^2 = 64$
- 54.** I. $17x^2 - 14x - 83 = -80$ II. $y^2 = 2y + 35$
- 55.** I. $x^2 + 4x - 45 = 0$ II. $y^2 - 13y + 40 = 0$

56. A container contains mixture of milk & water in ratio 5 : 3 respectively. If 8 lit milk is added in it then ratio of milk to water becomes 11 : 5. Find difference between initial quantity of milk & that of water.

- (a) 5 lit (b) 38 lit (c) 18 lit
(d) 30 lit (e) 10 lit

57. Rs 6000 when invested at a certain rate at SI for 2 years, it fetches Rs 1200. If same sum is invested at same rate for a year compounded half - yearly then find compound interest.

- (a) Rs 615 (b) Rs 600 (c) Rs 1200
(d) Rs 585 (e) Rs 1260

58. A boat can cover 28 km downstream in 42 min. ratio of speed of boat in still water to speed of stream is 7 : 3. Find difference between time taken by boat to cover 60 km downstream & 40 km upstream.

- (a) 2.25 hr (b) 1 hr (c) 1.5 hr
(d) 0.4 hr (e) 0.9 hr

59. A & B entered into a business by investing total capital of Rs 17000. B withdraws Rs 1500 after 6 months and gets Rs 8100 as profit out of total profit of Rs 19500 at the end of year. Find capital of B after 6 months from starting.

- (a) Rs 7000 (b) Rs 9500 (c) Rs 7500
(d) Rs 6000 (e) Rs 6500

60. If length of a rectangle increases by 40% while keeping breadth constant then area of rectangle increased by 24 m² and perimeter of original rectangle is 32 m. find breadth of rectangle.

- (a) 8.4 m (b) 10 m (c) 6 m
(d) 14 m (e) 8 m

Direction (61-70): What will come in the place of (?) mark in following question.

61. $280 \div 4 \div 2 = 170 - ?$
(a) 105 (b) 115 (c) 125
(d) 135 (e) 145

62. $(\sqrt{144} + \sqrt{169}) \times 3 = \frac{?}{5}$
(a) 375 (b) 325 (c) 350
(d) 275 (e) 475

63. $(12 \times 5 \div 4) \times 8 = ?$
(a) 100 (b) 140 (c) 120
(d) 80 (e) 90

64. $(120\% \text{ of } 750) \div ? = 25$
(a) 30 (b) 36 (c) 24
(d) 18 (e) 48

65. $8\frac{1}{2} - 4\frac{5}{6} = ? - 3\frac{7}{12}$
(a) $3\frac{1}{4}$ (b) $3\frac{5}{12}$ (c) $2\frac{7}{12}$
(d) $7\frac{1}{4}$ (e) $5\frac{2}{3}$

66. $275 + 64\% \text{ of } 750 = 750 + ?$
(a) 25 (b) 8 (c) 10
(d) 15 (e) 5

67. $\sqrt{225} + \sqrt{81} + 12^2 = ?$
(a) 168 (b) 164 (c) 162
(d) 172 (e) 182

68. $\frac{510}{?} = \sqrt{324} + 3.25$
(a) 12 (b) 48 (c) 24
(d) 6 (e) 18

69. $12.5\% \text{ of } (120 + ?) = 45$
(a) 160 (b) 180 (c) 360
(d) 240 (e) 120

70. $572 \div 13 \times 12 - 16 = (8)^?$
(a) 4 (b) 2 (c) 3
(d) 5 (e) None of these