

SBI PO Prelims Mock (Based on 20th November 2021) - Reasoning Ability

Direction (31–35): Given below table shows total three items (refrigerators, AC's & ovens) sold by four stores. Table also shows percentage of refrigerators sold & total number of AC's sold by out of total items sold. Read the data carefully and answer following questions:

Note- Each store sold only three types of items.

Stores	Total number of items sold	% Of refrigerators	Number of AC's sold
A	500	32%	100
B	800	48%	96
C	1200	45%	240
D	1500	56%	300

Q31. Total ovens sold by C & D together is what percent less than total number of refrigerators sold by A & D together?

- (a) 16%
- (b) 24%
- (c) 22%
- (d) 26%
- (e) 18%

Q32. Find the difference between average number of ovens sold by B & D and total number of refrigerators sold by C.

- (a) 260
- (b) 240
- (c) 250
- (d) 150
- (e) 200

Q33. If total refrigerators sold by store X is 25% more than refrigerators sold by D and total ovens, sold by store X is $37\frac{1}{2}\%$ more than total ovens sold by A, then find total number of refrigerators & ovens sold by store X?

- (a) 780
- (b) 1480
- (c) 1180
- (d) 1280
- (e) 1380

Q34. Find the ratio of total number of AC's sold by C & D together to total AC's & refrigerators sold by B?

- (a) 8 : 9
- (b) 9 : 8
- (c) 9 : 7
- (d) 4 : 3
- (e) 6 : 5

Q35. Total refrigerators sold by A & C together are what percent more than total ovens sold by C ?

- (a) $63\frac{2}{3}\%$
- (b) $60\frac{2}{3}\%$
- (c) $33\frac{1}{3}\%$
- (d) $66\frac{2}{3}\%$
- (e) $69\frac{2}{3}\%$

Direction (36–40): In each of the following questions two equations are given. Solve these equations and give answer:

- (a) if $x \geq y$, i.e., x is greater than or equal to y
- (b) if $x > y$, i.e., x is greater than y
- (c) if $x \leq y$, i.e., x is less than or equal to y
- (d) if $x < y$, i.e., x is less than y
- (e) $x = y$ or no relation can be established between x and y

Q36. I. $x^2 - 6x + 8 = 0$

II. $y^2 + 8y + 15 = 0$

Q37. I. $x^2 - 12x + 32 = 0$

II. $y^2 - 17y + 72 = 0$

Q38. I. $x^2 - 12x + 35 = 0$

II. $y^2 - 11y + 24 = 0$

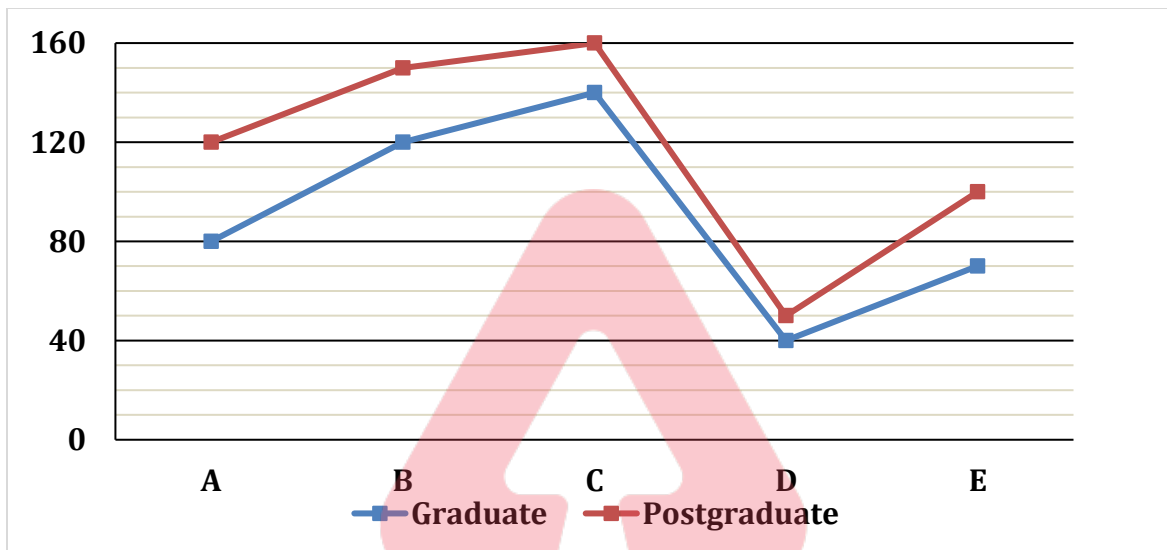
Q39. I. $8x^2 + 10x - 7 = 0$

II. $y^2 - 6y + 8 = 0$

Q40. I. $x^2 + 7x + 12 = 0$

II. $y^2 + 15y + 44 = 0$

Directions (41-45): Line chart shows the number of graduate students & postgraduate students in five different collages (A, B, C, D & E). Study the line chart given below and answer the following questions.



Q41. Total number of students (graduate + postgraduate) in collage A together are what percent more or less than total postgraduate students in collage B & collage E together?

- (a) 80%
- (b) 30%
- (c) 50%
- (d) 20%
- (e) 60%

Q42. If ratio of boys to girls in graduate students and postgraduate students in collage C is 3 : 2 & 5 : 3 respectively, then find ratio of total number of boys in graduate students and postgraduate students in collage C together to total number of graduate students in collage B?

- (a) 7 : 5
- (b) 23 : 15
- (c) 3 : 2
- (d) 21 : 13
- (e) 4 : 3

Q43. Total number of graduates students in collage C & collage E together are what percent of total graduate students and postgraduate students in collage D?

- (a) $233\frac{1}{3}\%$
- (b) $266\frac{2}{3}\%$
- (c) 250%
- (d) 225%
- (e) 275%

Q44. If total graduate students in collage X are 90 more than total graduate students in collage E and ratio of boys to girls in graduate students in collage B & collage X is 11 : 9 and 3 : 7 respectively, then find number of girls in graduate students in collage B & X together?

- (a) 145
- (b) 128
- (c) 134
- (d) 166
- (e) None of the above.

Q45. The average number of students postgraduate students in collage B, C & D are how much more or less than graduate students in collage A & E together?

- (a) 10
- (b) 20
- (c) 30
- (d) 50
- (e) 40

Q46. A man spent 20% of his monthly income on house rent, 20% of the remaining income on Food. If from the remaining income, ratio of amount spent on clothing to saving of a man is 7: 9 and difference between amount spent on Food and clothing is Rs.1080, then find income of man for nine months?

- (a) Rs. 81000
- (b) Rs.70000
- (c) Rs.68000
- (d) Rs.96000
- (e) Rs.108000

Q47. The ratio of speed of boat in still water to speed of stream is 8 : 5 and total time taken by boat to cover 'D' km distance in downstream and upstream together is 32 hours. Find the time taken by boat to cover '2D' km in still water?

- (a) 15.5 hours
- (b) 21.5 hours
- (c) 19.5 hours
- (d) 17.5 hours
- (e) 16.5 hours



Q48. Length of train A is 200 meters and length of train B is 'l' meters and train A and train B crosses a pole in 8 sec and 26 sec respectively, then find the time taken by train A to cross train B, when both trains are running in opposite direction if ratio of speed of train A to train B is 5 : 4?

- (a) 18 sec
- (b) 20 sec
- (c) 24 sec
- (d) 12 sec
- (e) 16 sec

Q49. A shopkeeper marked up of article A at 60% above its cost price and sold it at the discount of 25%. Profit made by shopkeeper on article A is Rs.475. If the cost price of article B is 40% more than that of article A and profit on both articles is same, then find the selling price of article B?

- (a) Rs.3300
- (b) Rs.3600
- (c) Rs.3000
- (d) Rs.3800
- (e) Rs.4200

Q50. 16 men and 14 women can complete a piece of work in 30 days. If four men joined them, then they could finish the 80% of the same work in 20 days, then find the time taken by 42 women to complete the two times of the same work?

- (a) 60 days
- (b) 50 days
- (c) 80 days
- (d) 120 days
- (e) 100 days

Direction (51-55): Read the data carefully and answer the questions.

A store sold 'X' number of total three different items (Jackets, Sweaters & Sweatshirts) in two different brands (Adidas & Nike). 40% of total sold items are Jackets and the ratio of total Jackets to total Sweatshirts sold by store is 10: 9. The ratio of total Adidas to Nike Sweaters sold by store is 7: 5 and 60% of total Jackets sold by store are Adidas brand. There are 40 Nike Sweatshirts sold by store & store sold 170 Nike brand items.

Q51. Find difference between total Adidas and Nike items sold by store?

- (a) 160
- (b) 120
- (c) 180
- (d) 260
- (e) 140

Q52. Total Adidas Sweaters sold by store are what percent less than total Nike Jackets sold by store?

- (a) 8%
- (b) 12.5%
- (c) 12%
- (d) 10%
- (e) 17.5%

Q53. Find average number of Adidas brand of items sold by store.

- (a) 120
- (b) 90
- (c) 110
- (d) 80
- (e) 130

Q54. Find ratio of total Adidas brand of Sweatshirts sold by store to total Nike brand of all three items sold by store?

- (a) 17 : 14
- (b) 12 : 17
- (c) 7 : 17
- (d) 13 : 17
- (e) 14 : 17

Q55. Total Adidas brand of Sweatshirts are what percent more than total Nike brand Sweaters sold by store?

- (a) 160%
- (b) 180%
- (c) 200%
- (d) 140%
- (e) 120%

Direction (56–60): What will come in the place of question mark (?) in following series?

Q56. 33, 36, 44, 59, ?, 118

- (a) 85
- (b) 83
- (c) 81
- (d) 87
- (e) 91

Q57. 162, 125, 94, 65, ?, 23

- (a) 42
- (b) 38
- (c) 40
- (d) 41
- (e) 43

Q58. 2, 15, 64, 195, ?, 393

- (a) 381
- (b) 387
- (c) 392
- (d) 389
- (e) 385

Q59. 322, ?, 82, 42, 22, 12

- (a) 172
- (b) 165
- (c) 164
- (d) 158
- (e) 162

Q60. 8, 5, 6, 13, 53, ?

- (a) 427
- (b) 425
- (c) 421
- (d) 423
- (e) 429

Q61. P and Q started a business and investment of Q is 25% more than that of P. After six months P doubled his investment and Q withdrew $\frac{1}{3}$ rd of his investment. If at the end of a year total profit obtained by them is Rs. 12200, then find the profit share of P?

- (a) 7200 Rs.
- (b) 5000 Rs.
- (c) 7800 Rs.
- (d) 5600 Rs.
- (e) 8400 Rs.

Q62. A man invested Rs. P in scheme X at the rate of 20% p.a. on compound annually for two years. Man invested total amount received from scheme X in another scheme Y at the rate of 5% p.a. on simple interest for 2 years. Find interest received from scheme Y is what percent of interest received from scheme X?

- (a) 40.72%
- (b) 36.72%
- (c) 39.72%
- (d) 16.36%
- (e) 32.72%



Q63. Four years ago, age of A is six years more than half of the age of B at that time. If eight years hence average age of A & B will be 42 years, then find ratio of age of A to that of B two years hence will be?

- (a) 5 : 6
- (b) 7 : 12
- (c) 5 : 7
- (d) 7 : 9
- (e) 3 : 4

Q64. In a vessel, milk and water are in the ratio of 5 : 2 respectively. If 42 liter of mixture is taken out from the vessel and 32 liter of water is added, then new ratio of milk and water becomes 7 : 6. Find initial quantity of mixture in vessel?

- (a) 84 liters
- (b) 98 liters
- (c) 126 liters
- (d) 154 liters
- (e) 140 liters

Q65. The ratio of the radius of two circles X & Y is 3 : 4 respectively and the sum of circumference of circle X and diameter of circle Y is 188 cm. If the ratio of side of a square to the sum of the radius of circle X & Y is 8 : 7, then find the perimeter of the square?

- (a) 200 cm
- (b) 208 cm
- (c) 216 cm
- (d) 224 cm
- (e) 232 cm