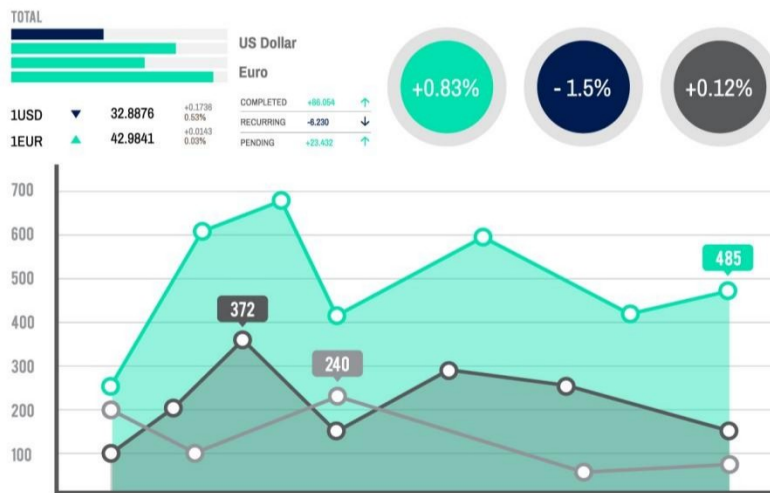




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- .Precisely Aligned with the Latest Banking Exam Pattern
- .Time-Saving Techniques (TST) for Faster and Accurate Problem-Solving

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Students are today enlightened and focused. They know what they are up to. They need just a ray of guidance. I feel I have accomplished the reason of my existence on this earth. Proud to be that faint ray of guidance, proud to be a reason of smile on certain lips, proud to be your teacher, friend and guide.

Jayakrishnan Ramachandran

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BAR GRAPH

Bar Diagram

This section consists of questions in which data collected is represented in the form of vertical or horizontal bars drawn by selecting a particular scale. One of the Parameters is plotted against horizontal axis and the other parameter is plotted against vertical axis.

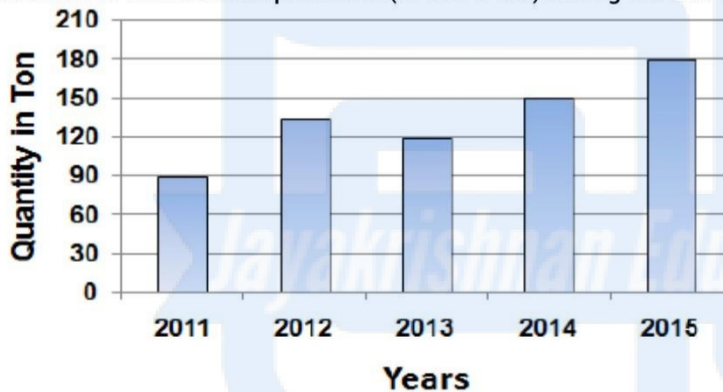
A bar chart is a chart with **rectangular bars** with lengths proportional to the values that they represent. Bar charts are diagrammatic representation of discrete data. A bar is a thick line whose width is shown merely for attention. In this method of data representation, the data is plotted on the x and y-axes as bars.

One of the axes (normally the x-axis) of the bar diagram represents a discrete variable, while the other axis represents the scale for continuous variable. Each bar diagram has a title indicating the subject matter.

Types of Bar Chart

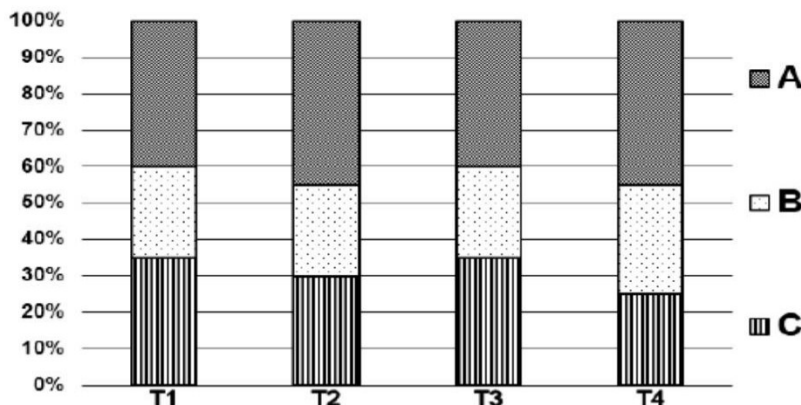
Following are the main bar charts

1. **Simple bar chart** A simple bar chart relates to only one variable. The following bar graph gives the information about wheat produced (in 100's ton) during the five consecutive years.



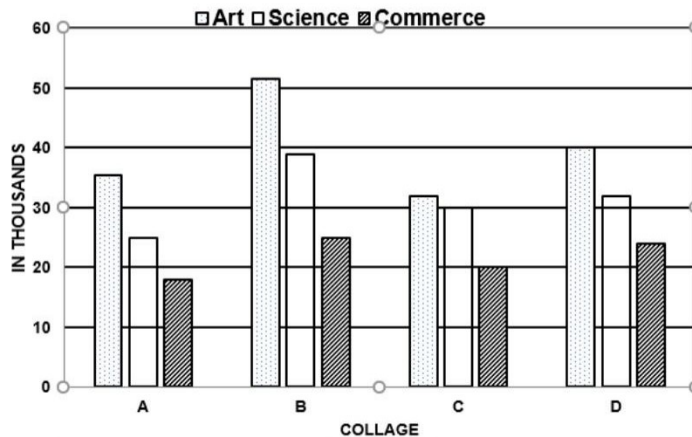
2. **Sub-divided bar chart** A sub-divided bar chart is used to represent various parts of total magnitude of a given variable.

Ex.1



The following graph shows, total numbers of students in four colleges (A, B, C & D) and in each college, the number of students in three trades (Art, Science, Commerce) are given.

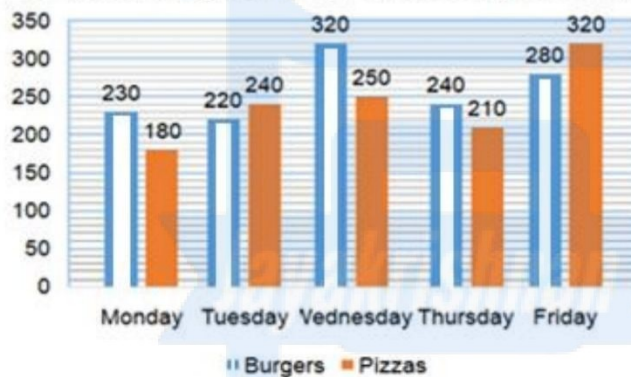
Ex.2



You have to study the given information carefully and then answer the given questions on the basis of data analysis.

Directions (1-5) Answer the questions based on the information given below. The given bar graph shows the number of burgers and pizzas sold by an outlet on different days of a week.

Number of burgers and pizzas sold by an outlet



Ex.1 Find the difference between the average number of burgers sold on Tuesday and Thursday taken together, and average number of Pizzas sold on Wednesday and Friday taken together.

- (1) 45 (2) 55 (3) 60 (4) 70 (5) 75

Ans.1(2)

Day	Number of Burgers Sold	Number of Pizzas Sold
Monday	230	180
Tuesday	220	240
Wednesday	320	250
Thursday	240	210
Friday	280	320

So, average number of burgers sold on Tuesday and Thursday taken together

$$= (220 + 240)/2 = 230$$

So, average number of Pizzas sold on Wednesday and Friday taken together

$$= (250 + 320)/2 = 285$$

$$\text{Therefore, required difference} = 285 - 230 = 55$$

Ex.2 If the revenue generated by outlet on Thursday is Rs.14400, and the ratio of price of each burger and price of each pizza is 5:8, respectively, then find the price of 4 burgers and 3 pizzas.

- (1) Rs. 160 (2) Rs. 180 (3) Rs. 200 (4) Rs. 220 (5) Rs. 240

Ans.2(4) Let, price of each burger and price of each pizza be Rs. $5x$ and Rs. $8x$, respectively.

According to question,

$$5x \times 240 + 8x \times 210 = 14400$$

$$1200x + 1680x = 14400$$

$$2880x = 14400 \Rightarrow x = 5$$

Therefore, price of each burger = $5 \times 5 = \text{Rs. } 25$

And, price of each pizza = $8 \times 5 = \text{Rs. } 40$

Therefore, required price = $4 \times 25 + 3 \times 40$

$$= 100 + 120 = \text{Rs. } 220$$

Ex.3 Find the ratio of number of burgers sold on Wednesday to the number of pizzas sold on Tuesday.

- (1) 5:4 (2) 4:3 (3) 3:2 (4) 2:1 (5) None of these

Ans.3(2)

Day	Number of Burgers Sold	Number of Pizzas Sold
Monday	230	180
Tuesday	220	240
Wednesday	320	250
Thursday	240	210
Friday	280	320

Therefore, required ratio = $320 : 240 = 4 : 3$

Ex.4 The number of burgers sold on Friday is approximately what percentage more or less than the number of pizzas sold on Monday?

- (1) 38% (2) 44% (3) 48% (4) 55% (5) 61%

Ans.4(4) Therefore, required percentage
 $= \frac{(280 - 180)}{180} \times 100 \sim 55\%$

Ex.5 The number of pizzas sold on Saturday is $(x + 10)\%$ more than number of pizzas sold on Wednesday. If the number of pizzas sold on Saturday is 25% more than the number of burgers sold on Friday, then find the value of x .

- (1) 15 (2) 20 (3) 25 (4) 30 (5) 35

Ans.5(4) According to question,

$$250 \times (100 + x + 10)\% = 280 \times 1.25$$

$$250 \times (110 + x)\% = 350$$

$$(110 + x)\% = 7/5$$

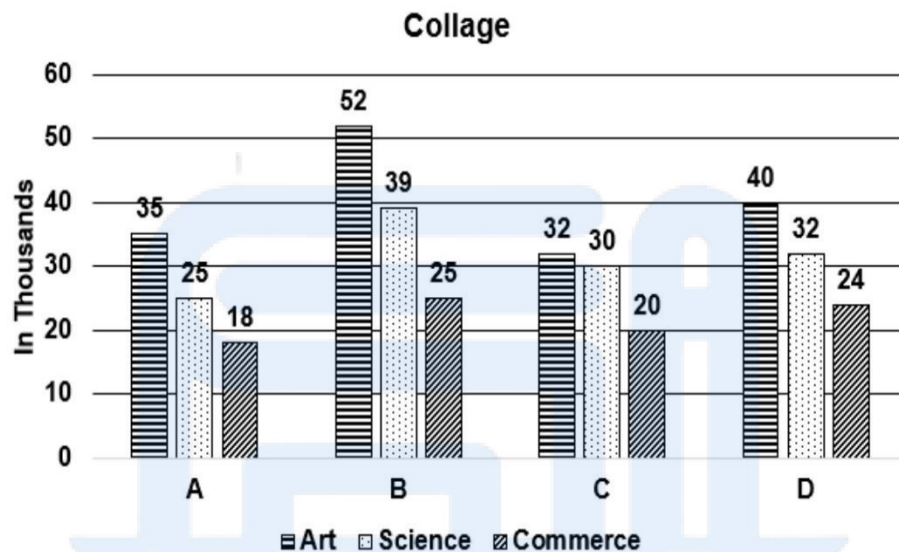
$$550 + 5x = 700$$

$$5x = 150$$

$$x = 30$$

EXERCISE

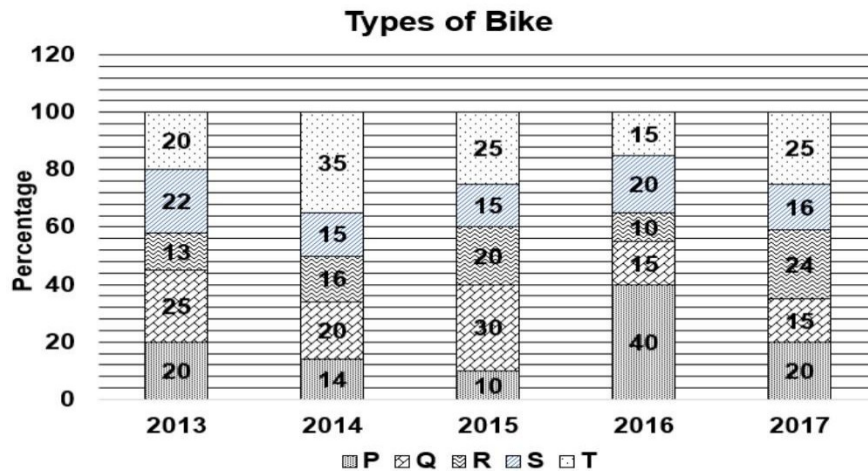
Direction (1-5) Study the following Graph carefully and answer the questions. The following graph shows, total numbers of students in four colleges (A, B, C & D) and in each college, the number of students in three trades (Art, Science, Commerce) are given.



- What is the average number of students of Commerce from all the colleges together?
 (1) 22750 (2) 21750 (3) 20750 (4) 24750 (5) 23750
- What is the ratio of the students belonging to science from college A and B together to the students from the same trade from college C and D together?
 (1) 33:32 (2) 34:31 (3) 32:31 (4) 41:35 (5) 35:41
- 20% students of college D got selected in government job. From college B, 30% students got selected in government job. Find the total number of students get selected in government job from college B and college D together?
 (1) 43,880 (2) 54,000 (3) 42,880 (4) 45,080 (5) 46,880
- What is the difference between the total number of students studying in college A and that studying in college D?
 (1) 12,500 (2) 14,500 (3) 18,500 (4) 19,500 (5) 18,000
- The number of students of Science from college B is approximately, what percent of the total number of students studying in that college?
 (1) 33.62% (2) 34.91% (3) 37.91% (4) 31.91% (5) 28.91%

Direction (6-10) Study the following graph carefully and answer the questions.

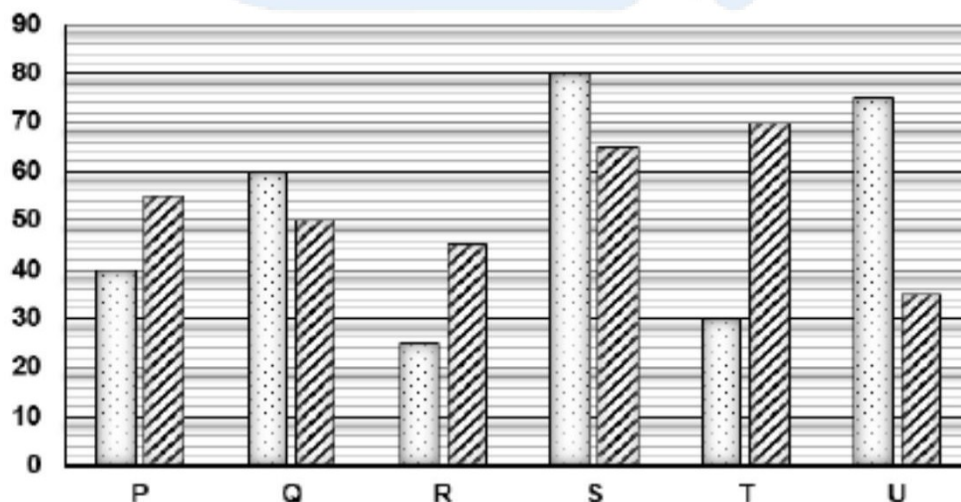
The following graph shows the percentage of different types of Bikes produced by the company during five years. Total number of Bikes produced by the company in 2013, 2014, 2015, 2016 and 2017 are 24000, 26000, 20,000, 28000 and 32000 respectively.



6. If 75% of T types bikes produced in all the given years are being sold by the company, then how many T type bikes are left unsold by the company?
 (1) 7895 (2) 6895 (3) 7775 (4) 7674 (5) 8432
7. What was the difference between the production of S types bikes in 2013 and that of Q type in 2017?
 (1) 480 (2) 1024 (3) 520 (4) 440 (5) None of these
8. In the case of which of the following types of bikes was the percentage increase from 2015 to 2017 the maximum?
 (1) T (2) R (3) S (4) P (5) Q
9. What is the ratio of total number of bikes produced in 2014 of P, Q, R and S type together and total number of bikes produced in 2016 of P, R and S type together?
 (1) 169:225 (2) 161:196 (3) 161:214 (4) 167:214 (5) None of these
10. Total No of bikes produced in 2013 of Q and R type together is what % more / less than the total no of bikes produced in 2015 of P and S type together?
 (1) 80% more (2) 80% less (3) 82% more (4) 45% less (5) None of these

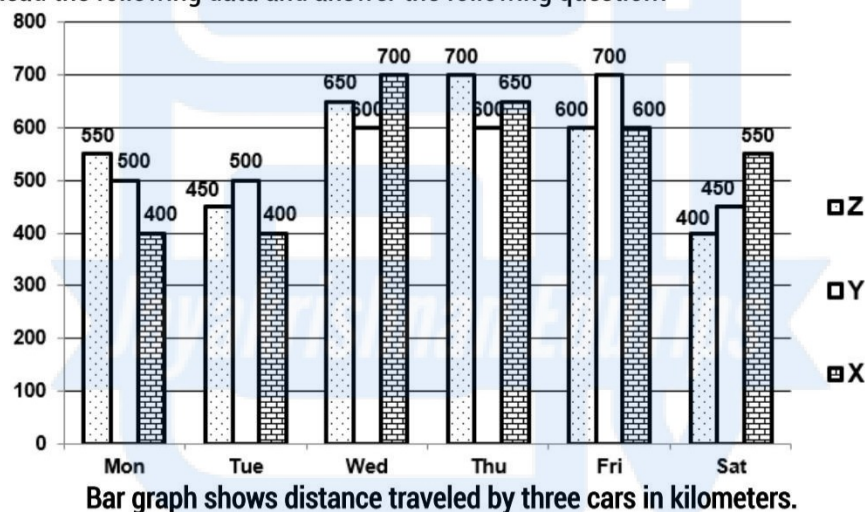
Directions (11-15) The following graph shows percentage increase in the number of students of different universities (P, Q, R, S, T, U) in different years.

- It shows % increase in year 2010 with respect to 2009.
- ▨ It shows % increase in year 2011 with respect to 2010.



11. If students of university Q in 2009 and students of university U in 2010 are in the ratio 29:42 then the students of university Q in 2010 is approximately what % more/less than the students of university U in 2009?
(1) 87.5% more (2) 94.5% more (3) 93.33% less (4) 91.33% more (5) None of these
12. Average of students in University S in year 2009, 2010 and 2011 together is 57700 then How many students are of university S in 2011?
(1) 89100 (2) 88200 (3) 91232 (4) 82414 (5) 88200
13. Students of university P in 2010 are equal to the students of university R in year 2009. then what are the number of students of university R in 2010? If students of university P in year 2011 are 37200.
(1) 36000 (2) 42000 (3) 24000 (4) 30000 (5) Cannot determine
14. If in the year 2009 students of university T and university U are in the ratio 27:17. Then what is the ratio of students of university U to the students of university T in the year 2011.
(1) 35:43 (2) 37:52 (3) 53:43 (4) 39:52 (5) None of these
15. If the difference b/w the number of students of university Q in year 2009 to year 2011 is 56000 then find out the difference in the number of students of university P in 2009 to year 2011? If the ratio of the number of students of university P to Q in year 2009 is 7:8?
(1) 42875 (2) 40850 (3) 40950 (4) 42975 (5) 41750

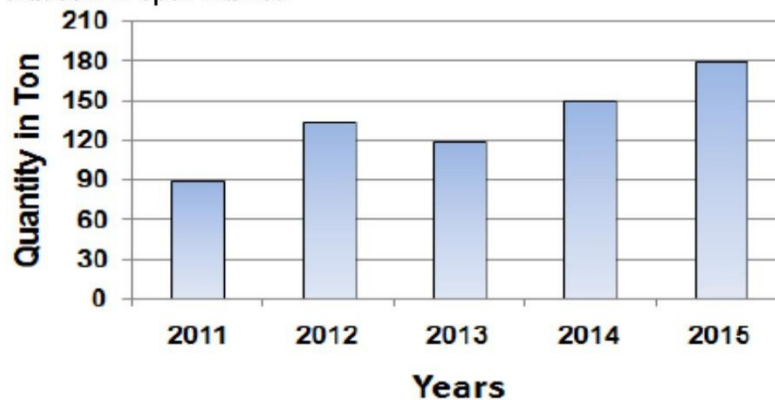
Directions (16-20) Read the following data and answer the following question?



16. What is the ratio of the distance travelled on Wednesday and Friday taken for all the cars together?
(1) 2:1 (2) 3:1 (3) 4:1 (4) 39:38 (5) None of these
17. Find the 133.33 % of speed of car Y, which was covered distance in 20 hours on Thursday?
(1) 11.11 km/sec (2) 11.11 km/hr (3) 11.11 m/sec (4) 40 km/sec (5) None of these
18. What is the average distance travelled by car x on all day together.
(1) 585.33 km (2) 550 km (3) 458.3 km (4) 155.3 km (5) None of these
19. Total distance travelled by car Z is what percent of car Y for all the days together?
(1) 22 % (2) 200 % (3) 40 % (4) 105 % (5) None of these
20. What is the difference of total time taken by all three cars running at maximum speed of 30km/h. during Tuesday and Saturday?
(1) 1.95 hour (2) 1.92 hour (3) 1.66 hour (4) 2 hour (5) None of these

Direction (21-25) Study the following bar and table chart carefully and answer the questions given beside.

The following bar graph gives the information about wheat produced (in 100's ton) in Gorakhpur during the five consecutive years. The table given below gives the information about the ratio of wheat bought by government to that sold in open market.

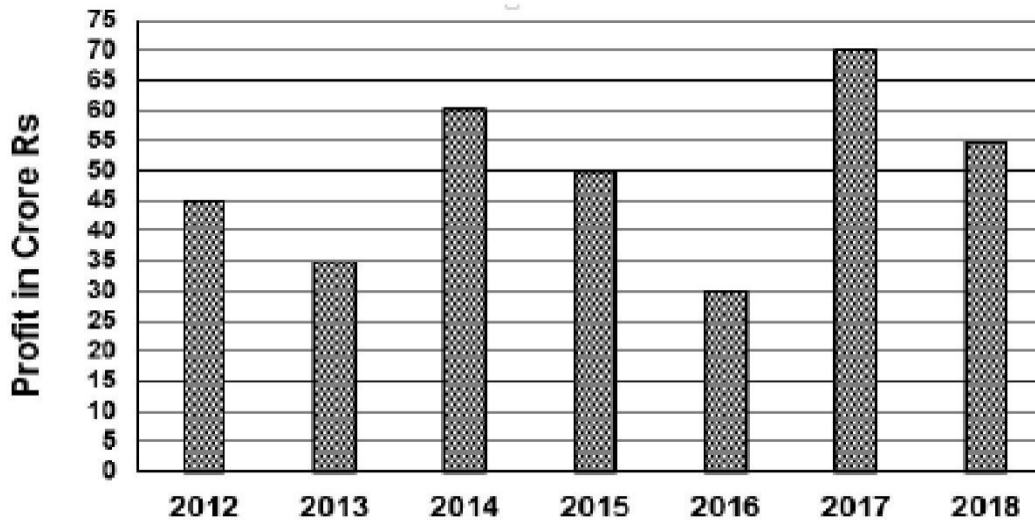


Year	Wheat Bought by Government	Wheat Sold in open market
2011	11	7
2012	20	7
2013	4	11
2014	3	2
2015	13	7

21. What is the total quantity (in ton) of wheat bought by government during the whole period?
(1) 325 Ton (2) 39400 Ton (3) 220 Ton (4) 21 Ton (5) None of these
22. What is the ratio of wheat bought by government in the year 2011 to that sold in the open market in the year 2014?
(1) 11 : 13 (2) 11 : 12 (3) 7 : 9 (4) 13 : 6 (5) None of these
23. The quantity of wheat sold in the open market during the whole period is what percentage of the total quantity of wheat produced during the whole period?
(1) 21% (2) 66% (3) 41.62% (4) 52.3% (5) None of these
24. If the government bought wheat for Rs. 250 per ton but that was sold in the open market for Rs. 270 per ton then in the year 2013 and 2014 together, how much less money was obtained from government than the total money obtained from open market in those years?
(1) 102000 (2) 150030 (3) 1920000 (4) 1671000 (5) None of these
25. What is the difference (in 100's tons) the total quantity of sugarcane bought by government in the years, 2013, 2014, and 2015 together to the total quantity of sugarcane sold in the open market in the year 2011, 2012, and 2013 together?
(1) 41 (2) 49 (3) 81 (4) 61 (5) None of these

Directions (26-30) Study the following bar graph carefully and answer the questions given below.

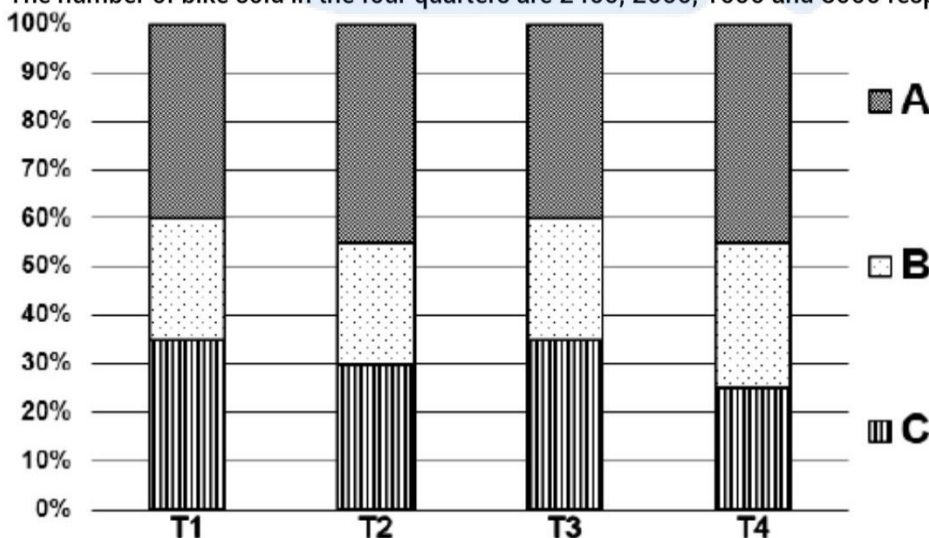
Profit (Rs. In crore) earned by a company over the Profit Earned by a company over the years.



26. The income of the company in the year 2018 was Rs.140 crores and the income of the company in the year 2014 was Rs.125 crores. What is the respective ratio of the expenditure of the company in the year 2018 to the expenditure of the company in the year 2014?
 (1) 3:2 (2) 17:13 (3) 5:3 (4) 21:17 (5) 11:9
27. What is the approximate percent profit of the year 2017 if the income of the company was Rs. 298 crores in that year?
 (1) 29% (2) 33% (3) None of these (4) 31% (5) 35%
28. The expenditure of the company in the year 2013 was Rs. 59 crore then what was the income of the company in that year?
 (1) Rs.94000000 (2) Rs.890000000 (3) 95 crore (4) Rs.90000000 (5) None of these
29. In which year, the percent increase decrease in the profit is fourth highest from that of the previous year?
 (1) 2013 (2) 2018 (3) 2016 (4) 2015 (5) 2014
30. What is the approximate value of average profit earned by the company over the years?
 (1) 52 Crore (2) 53 Crore (3) 49 Crore (4) 47 Crore (5) None of these

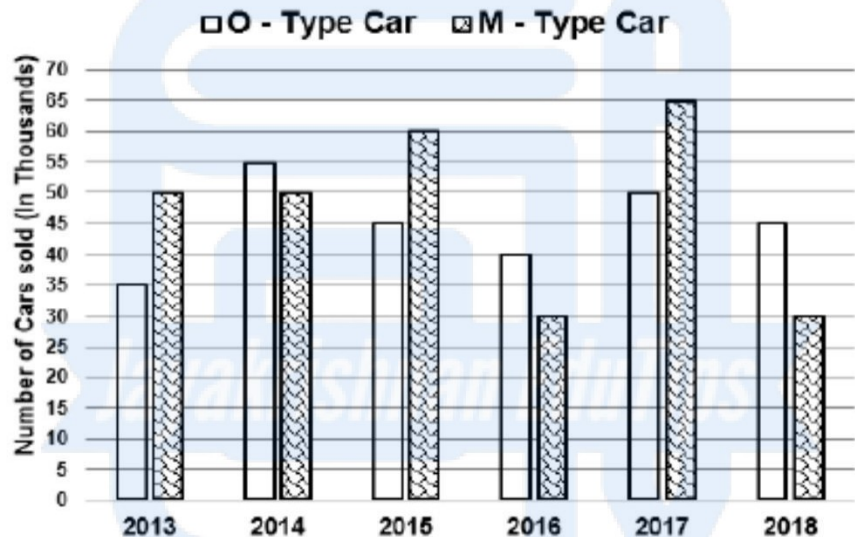
Direction (31-35) Answer the following questions based on the bar graph given?

The following graph shows the A, B and C type bikes sold in the quarter in the year 2016 - 2017. The number of bike sold in the four quarters are 2400, 2000, 1600 and 3000 respectively.



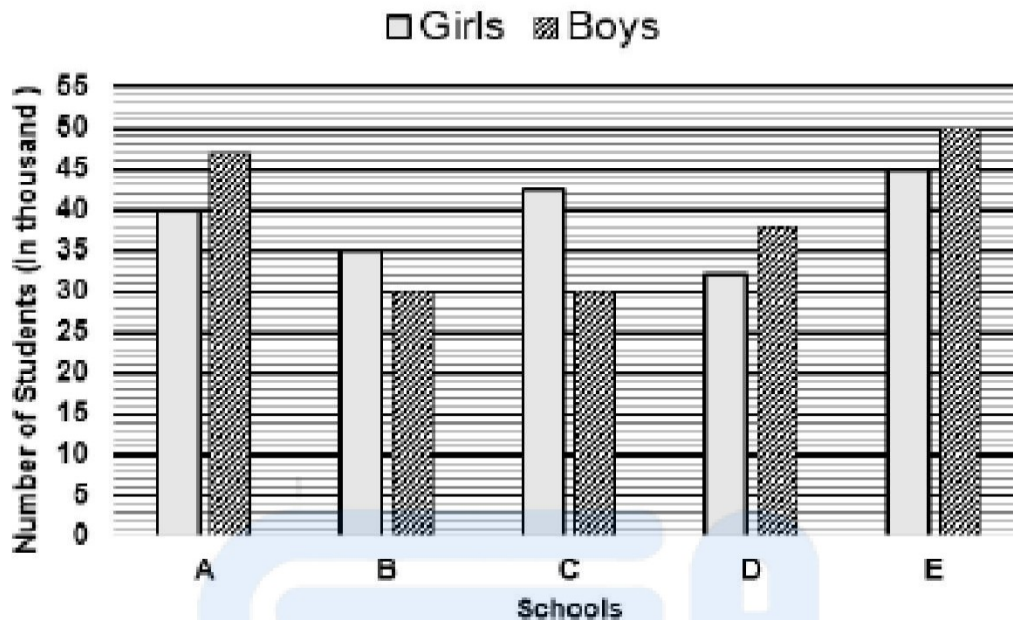
31. Find the total number of B type bikes sold in all quarters together?
(1) 2200 (2) 2400 (3) 3100 (4) 3300 (5) None of these
32. "A" type bike sold in 3rd quarter is approximately what percent of the total number of bikes of A type sold in all quarters together?
(1) 17% (2) 14% (3) 12% (4) 19% (5) None of these
33. For any particular quarter which type bike registered the maximum number of bikes sold?
(1) In T_4 C type bike (2) In T_2 B type bike (3) In T_4 B type bike
(4) In T_1 A type bike (5) No one of these
34. Find the 66.66% of the product of total number of bikes sold of B type and C type in 3rd and 4th quarter together?
(1) 106500 (2) 190200 (3) 16100 (4) 121000 (5) None of these
35. Which type of bike registered the highest percentage increase in the number of bike sold from T_1 to T_4 .
(1) A (2) C (3) A and B (4) C and B (5) None of these

Direction (36-40) Study the following bar graph carefully to answer the questions that follow:
Two types of Car sold (In thousands) by a company in given years.



36. What is the percentage increase in the sale of M type car from 2014 to 2017?
(1) 40% (2) 30% (3) 25% (4) 20% (5) None of these
37. What is the average number of O type Car sold by the company in 2013, 2015, 2016, and 2018 together?
(1) 42750 (2) 43874 (3) 41250 (4) None of these (5) 40860
38. In which of the following year is the difference between the sale of O-type and M-type cars the minimum?
(1) 2016 (2) 2013 and 2018 (3) 2015 (4) 2017 (5) None of these
39. The total number of O type Cars sold in 2014, 2017, 2018 and 2015 together is approximately what percent of the total number of M type cars sold in 2013, 2015 and 2018 together?
(1) 143% (2) 137% (3) 147% (4) 139% (5) None of these
40. In which of the following year is the percentage increase / decrease of sale O-type Cars the fourth highest from the previous year?
(1) 2015 (2) 2014 (3) 2016 (4) 2017 (5) 2018

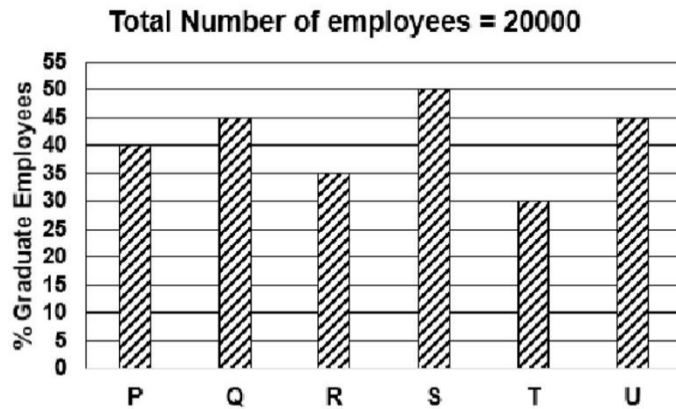
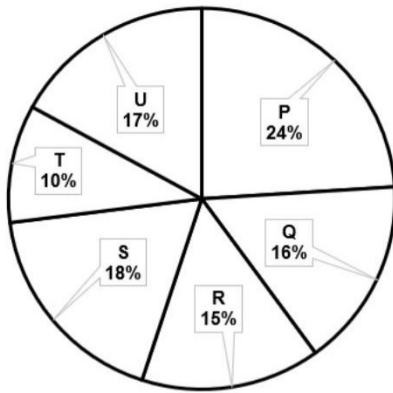
Directions (41-46) Read the following bar graph carefully and answer the questions given below



41. What is the average number of girls in all the schools together?
 (1) 38800 (2) 42500 (3) 38900 (4) 42500 (5) None of these
42. The total number of boys in school B and D together is what percent less than the total number of students in school C and E together?
 (1) 60.8% (2) 62.5% (3) None of these (4) 59.4% (5) 57.5%
43. What is the ratio between the total number of boys from school A and C together and the total number of girls from school B and E together?
 (1) 83:79 (2) 77:80 (3) 19:17 (4) 111:107 (5) None of these
44. What is the total Number of students in school A and D together?
 (1) 14700 (2) 156000 (3) 13800 (4) 168000 (5) None of these
45. If the total number of girls in school B increases by 40% then what would be the total number of students in that school?
 (1) 79000 (2) 83000 (3) 77000 (4) 78500 (5) None of these
46. The average number of boys in all schools together is approximately what percent of the total number of girls in all school together?
 (1) 25% (2) 22% (3) 18% (4) 15% (5) None of these

Direction (47-51) The given pie-chart shows the % distribution of employees among different departments of a company and the bar graph shows the percentage of graduate employees among them. Answer the following questions based on these graph.

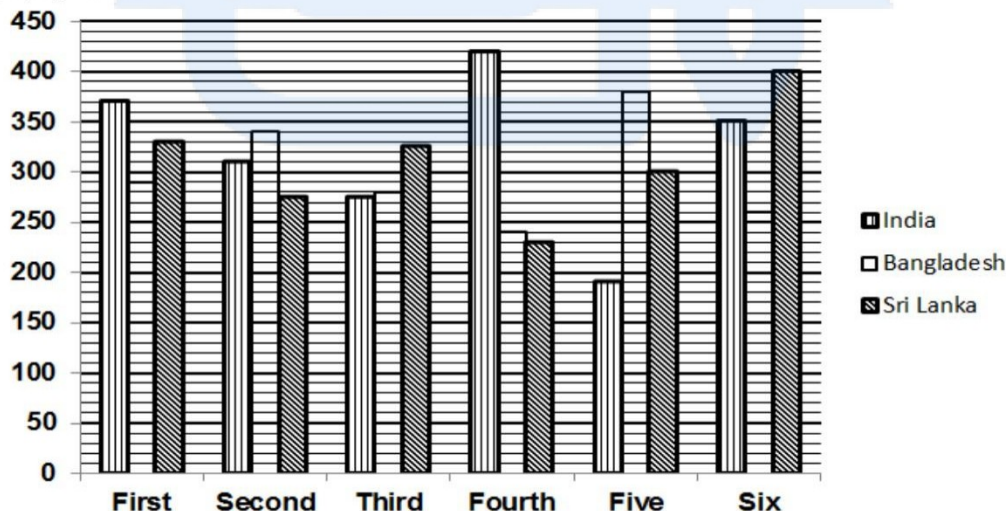
Total number of employees = 20,000



47. What is the total number of graduate employees working in department U?
 (1) 1530 (2) 1660 (3) 1490 (4) None of these (5) 1385
48. What is the total number of employees working in the company who are non-graduates?
 (1) 14450 (2) 10080 (3) 11660 (4) 12420 (5) None of these
49. The total number of non-graduate employees working in department R is what percent of the total number of employees of the department S?
 (1) 57% (2) 52% (3) None of these (4) 54% (5) 59%
50. What is the average number of graduate employees working in the company in all the departments together?
 (1) 1407 (2) 1390 (3) 1365 (4) 1284 (5) None of these
51. The total number of non-graduate employees in department Q and U together is approximately what percent more/less than the total number of non-graduate employees in department P and S together?
 (1) 24.5% (2) 25% (3) 20.5% (4) 18% (5) None of these

Direction (52-56) Read the following bar graph carefully and answer the questions given below.

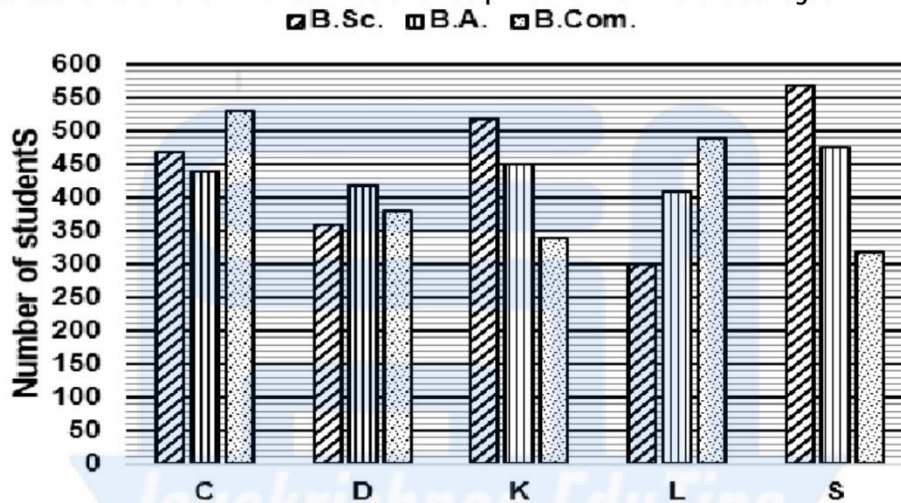
Bar graph shows number of runs scored by three different teams in six different cricket matches of Nida has trophy 2018.



52. What is the percentage decrease in the number of runs scored by Sri Lanka in second match as compared to that in the previous match?
 (1) 31/3% (2) 17.5% (3) 19% (4) 14% (5) None of these

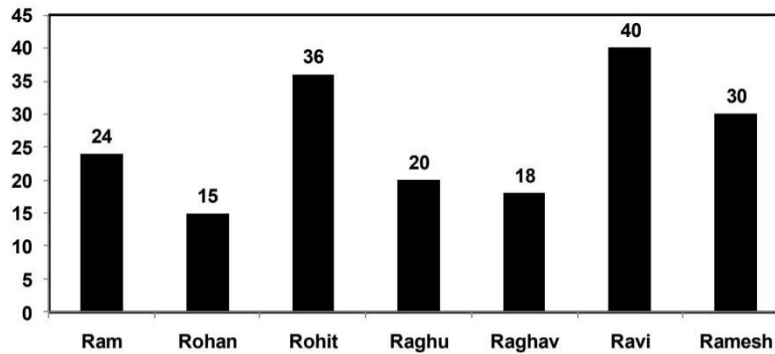
53. What is the average number of runs scored by India in all the matches together.
 (1) 424.67 (2) 319.16 (3) 293.33 (4) 428.5 (5) 280.67
54. The total number of runs scored by all the teams in sixth match is approximately what percent of the total number of runs scored by Bangladesh in all the matches together?
 (1) 59% (2) 54% (3) 56.5% (4) 63% (5) 60.5%
55. What is the ratio of the total number of runs scored by Sri Lanka in third and fifth match together to the total number of runs scored by India in second, fourth and first match together?
 (1) 25:44 (2) 19:37 (3) 21:39 (4) 26:43 (5) None of these
56. In which match is the total runs scored by all the teams together the fourth highest?
 (1) First match (2) Second match (3) Third match (4) Fourth match (5) Fifth match

Direction (57-61) Read the following bar graph carefully and answer the questions given below.
 Number of students enrolled in three different disciplines in five different colleges.



57. What is the average of the total number of students studying B. Com. in all the colleges together?
 (1) 425 (2) 525 (3) 412 (4) 565 (5) None of these
58. What is the respective ratio of the total number of students studying B.A., B. Com. and B. Sc. in all the colleges together?
 (1) 441: 413: 440 (2) 11: 9: 12 (3) 534: 551: 601 (4) 439: 412: 442 (5) None of these
59. The total number of students studying B. Sc. in the college D and S together is approximately what percent more/ less than the total number of students studying in all disciplines together from college L?
 (1) 31% less (2) 27% less (3) 23% less (4) 29% less (5) None of these
60. What is the difference between the total number of students studying all the disciplines together from college C and the total number of students studying all the disciplines together from college K?
 (1) 160 (2) 140 (3) 120 (4) 130 (5) None of these
61. The number of students studying B.A in college S forms approximate what percent of the total number of students studying all the disciplines together in that college?
 (1) 40% (2) 38% (3) 33% (4) 42% (5) None of these

Direction (62-66) Read the following two graph and answer the questions.
 The graph below shows the Number of days taken by seven boys to complete a work.



The line graph shows the number of days taken by seven girls to complete a work.



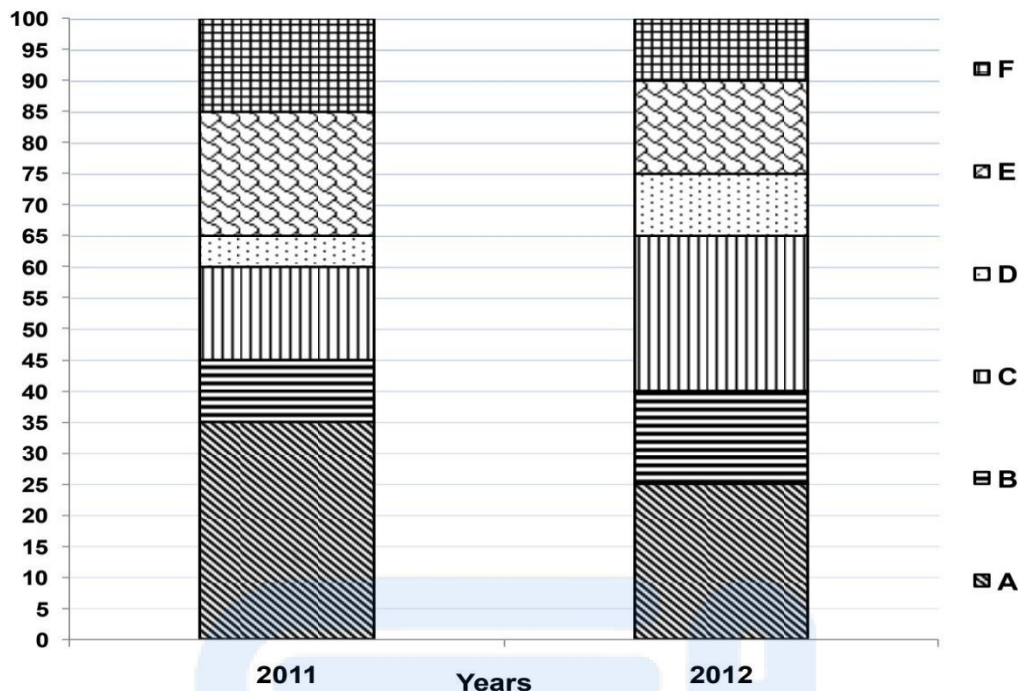
62. Raghav started working alone on his normal efficiency and worked for 6 days so what percentage should he increase his efficiency to complete the remaining work on time?
 (1) 25% (2) 19.5% (3) 22.5% (4) 100% (5) 27.5%
63. If Ram, Rohit and Ramesh started to work and after 6 days they were replaced by Rohini and Ruchi then they stopped. How much part of work is still left? If Rohini and Ruchi worked for 4 days together.
 (1) $\frac{1}{40}$ (2) $\frac{1}{56}$ (3) $\frac{1}{60}$ (4) $\frac{1}{66}$ (5) $\frac{1}{72}$
64. Raghu and Ravi started work. Raghu worked at 125% of his efficiency and Ravi at $\frac{8}{9}$ of his normal routine work. They started work on alternate days starting with Raghu. How many days will be taken by them to complete the work?
 (1) 22 days (2) $23\frac{1}{4}$ days (3) 26 days (4) 23 days (5) 24 days
65. How many days will it complete the work if Rachna does 40% of the work alone, 25% is done by Rani alone and the remaining done by Reshma?
 (1) 31 days (2) 22 days (3) 34 days (4) 40 days (5) 45 days
66. If all the girls together then time taken by them will be how much less than the time taken by Rohan, Rohit and Raghav together to do the work?
 (1) 6 days (2) 7 days (3) 3 days (4) $3\frac{1}{3}$ days (5) 4 days

Direction (67-71) The bar-graph given below shows the % distribution of the total production of a car manufacturing company into various models over two years. Study the graph carefully and answer the question that follow.

Total number of cars produced in 2011 = 33000

Total number of cars produced in 2012 = 42000

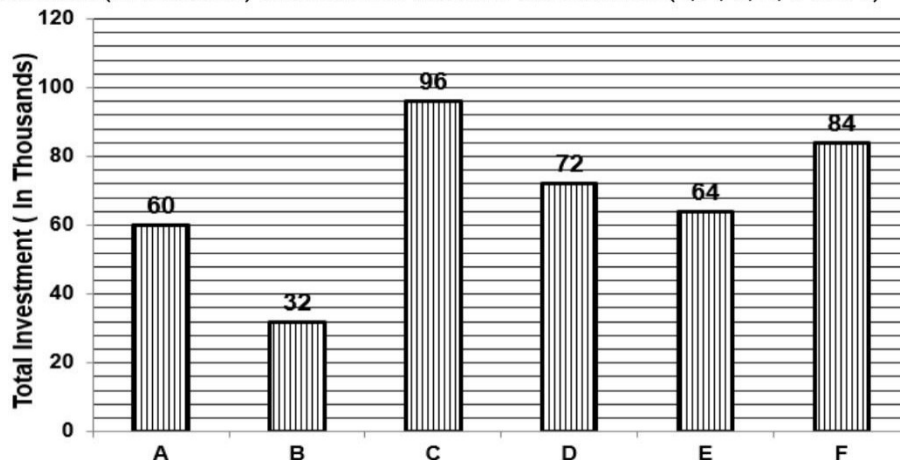
Percentage of 6 types of cars manufactured by a company in 2011 & 2012

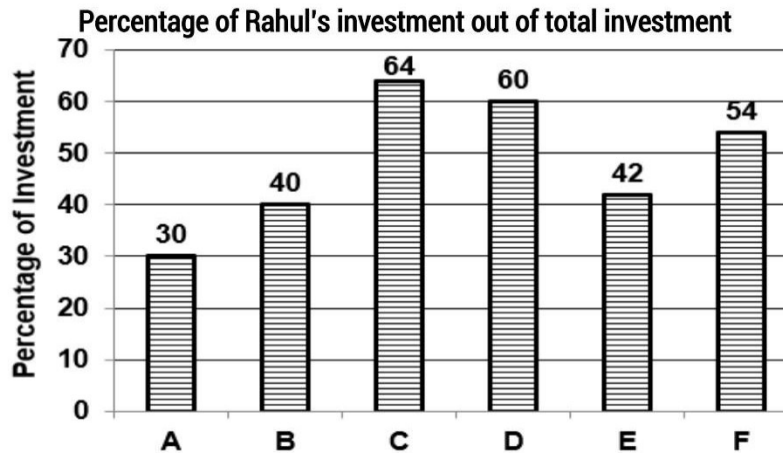


67. How many total cars of model A, C and F were manufactured in the year 2012?
 (1) None of these (2) 21000 (3) 24576 (4) 25200 (5) 25300
68. If 65% of the E type cars produced in each year were sold by the company, how many E type cars remained unsold?
 (1) 2626 (2) 2526 (3) 2438 (4) 2852 (5) None of these
69. If the % production of A type cars in 2012 be the same as in 2011, then the no. of A type cars produced in 2012 would have been-
 (1) None of these (2) 14800 (3) 13700 (4) 12684 (5) 16665
70. What was the difference in the number of C types car produced in 2011 and that produced in 2012?
 (1) 6550 (2) 5325 (3) 5550 (4) None of these (5) 4850
71. Total no of car produced in 2011 of models B, D and E together is approximately what % of total no. of car produced in 2012 of models B, D and F together?
 (1) 76% (2) 79% (3) 82% (4) None of these (5) 84%

Direction (72-78) Study the following bar graphs carefully to answer the given questions.

Total investment (in thousand) of Rahul and Vineet in six schemes (A, B, C, D, E and F)

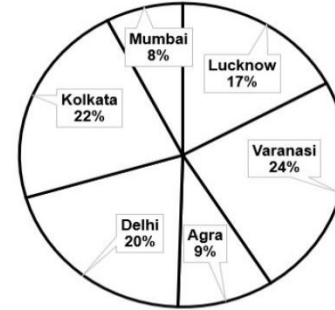
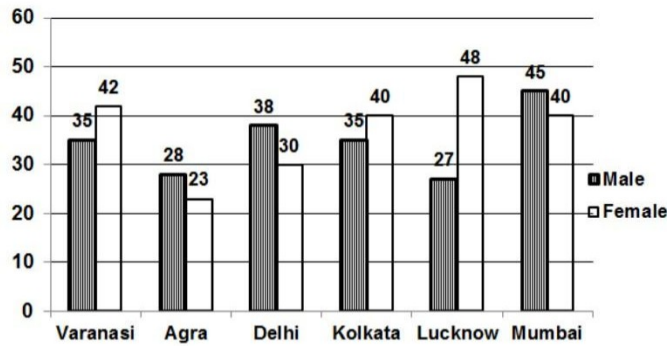




72. What is the average amount invested by Vineet in schemes A, C, D, E and F together?
 (1) 38314 (2) 36224 (3) 42512 (4) 34215 (5) None of these
73. The amount invested by Rahul in scheme G is equal to the amount invested by him in scheme D. The rate of interest (pcpa) of scheme G and D are same. The only difference in that scheme G offers compound interest (compounded annually) while the scheme D offer simple interest. If the difference between the interest earned by Rahul from both schemes after 2 years is Rs.522.72, what is the rate of interest (in%)?
 (1) 13% (2) 7% (3) 9% (4) 8% (5) None of these
74. Scheme F offers simple interest at a certain rate of interest (pcpa). If the difference between the interest earned by Rahul and Vineet from scheme F after 5 years is Rs.5880, what is the rate of interest (pcpa)?
 (1) 17.5% (2) 16.5% (3) 18.5% (4) 14.4% (5) None of these
75. If scheme B offers compound interest (compounded half yearly) 20% p.a, what would be the sum of interest earned by Rahul and Vineet from scheme B after one year?
 (1) Rs.7720 (2) Rs.6760 (3) Rs.5828 (4) Rs.6400 (5) None of these
76. Vineet invested in scheme C for 4 years. If scheme C offers simple interest 6% p.a. for the first two years and then compound interest 8% p.a. (compounded annually) for the 3rd and 4th year, what will be the interest earned (In Rs.) by Vineet after 4 years?
 (1) Rs. 8892.716 (2) Rs. 9496.792 (3) Rs. 9897.984 (4) Rs. 9914.264 (5) None of these
77. The scheme A offers compound interest (compounded annually) 12% p.a. what is the difference between the interest earned by Vineet and Rahul from scheme A after 2 years?
 (1) Rs.6496.12 (2) Rs.6234.16 (3) Rs.6056.14 (4) Rs.6105.6 (5) None of these
78. What is the ratio of the total amount invested by Rahul in scheme E and D together to the total amount invested by Vineet in the same schemes together?
 (1) 217 : 199 (2) 199 : 217 (3) 208 : 229 (4) 219 : 206 (5) None of these

Direction (79-83) Study the below bar graph and pie chart carefully and answer the following questions. Bar graph shows the number of working male and female population (in lakh) in various cities.

Pie-chart shows % distribution of income of different cities.
 Total Income = 400 crore



79. In which city, the income per working person is the second highest?
 (1) Delhi (2) Varanasi (3) Kolkata (4) Agra (5) Lucknow
80. What is the sum of the average working male and average working female population of all the given six cities?
 (1) 54.66 lakh (2) 72.46 lakh (3) 71.82 lakh (4) 68.72 lakh (5) 76.98 lakh
81. In Kolkata, what is the approx. difference between the income of males and that of females? If each person (male/female) has equal income?
 (1) 5.1267 cr (2) 6.425 cr (3) 6.39 cr (4) 6.367 cr (5) 5.867 cr
82. The number of working males Varanasi Agra and Delhi together is approximately what percent of the total number of working females in Mumbai, Delhi and Lucknow together?
 (1) 85.6% (2) 88.4% (3) 72.98% (4) 81.67% (5) 68.14%
83. What is the average of the total incomes of Lucknow, Kolkata, Delhi and Varanasi?
 (1) 82000000 (2) 8400 lakh (3) 86 crore (4) 810 lakh (5) None of these

Solution

Ans.1(2) Average number = $(18 + 25 + 20 + 24) \times 1000 / 4$
 $= 87000 / 4 = 21,750$

Ans.2(3) Required ratio = $(39+25):(30+32) = 64:62 = 32:31$

Ans.3(2) Students get selected in government job from college B,
 $= 30/100 \times (52000 + 39000 + 25000) = 34,800$
 Number of students get government job from college D,
 $= 20/100 \times (40,000 + 32,000 + 24,000) = 19200$
 required number = $34800 + 19200 = 54000$

Ans.4(5) Total number of Students studying college A,
 $= 35000 + 25000 + 18000 = 78000$
 Total number of students studying in college D,
 $= 40,000 + 32,000 + 24,000 = 96,000$
 Required difference = $96000 - 78,000 = 18000$

Ans.5(1) Required % = $39,000 / (52,000 + 39000 + 25000) \times 100$
 $= 39,000 / 1,16,000 \times 100 = 33.62\%$

Ans.6(3) Required number of unsold T types of bikes

$$\left[24000 \times \frac{20}{100} + 26000 \times \frac{35}{100} + 20000 \times \frac{25}{100} + 28000 \times \frac{15}{100} + 32,000 \times \frac{25}{100} \right] \times \frac{25}{100}$$

$$\Rightarrow [4800 + 9100 + 5000 + 4200 + 8000] \times \frac{1}{4}$$