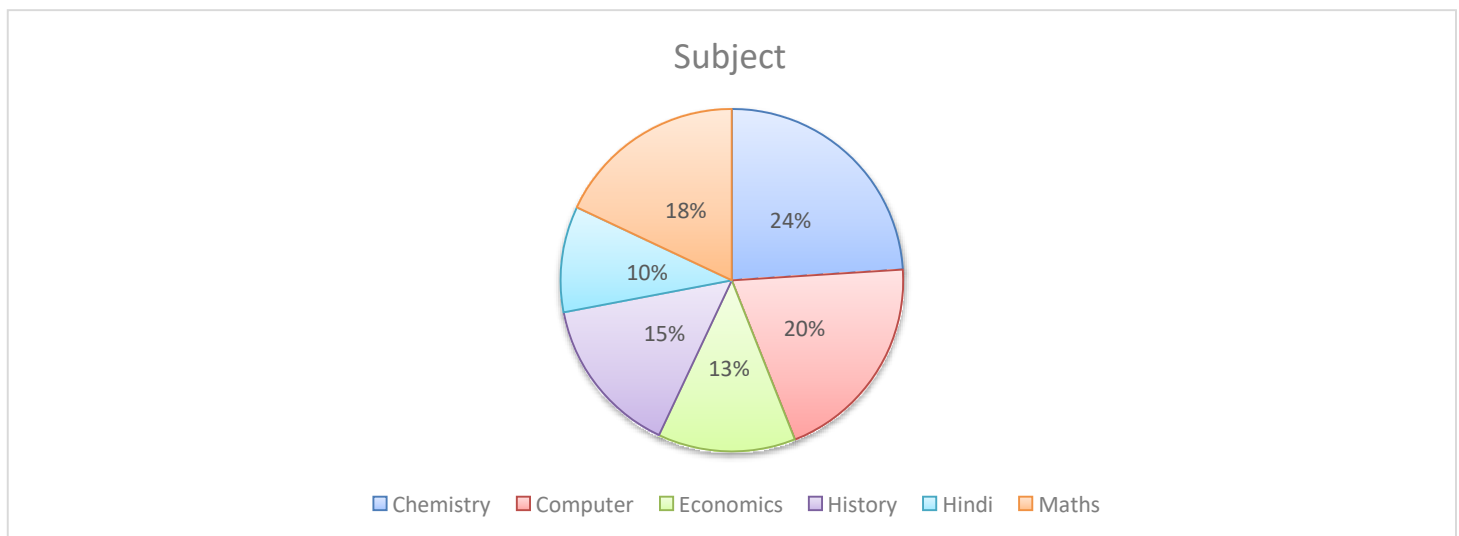# Pie Chart Based DI

Directions (1 – 5): Study the following information and answer the following questions:

The following Pie Chart show the Percentage of Professors teaching six different subject in University X. total number of Professors are 1500.

Subject

- Chemistry 24%
- Computer 20%
- Economics 13%
- History 15%
- Hindi 10%
- Maths 18%

1. Find the ratio between number of teachers who teach history and Hindi together to number of teacher who teach Economics and Maths?

a) 31:26

b) 25:31

c) 19:25

d) 25:19

e) None of the above

2. Total number of teacher who teach maths and Computer is how much % of number of teacher who teach history?

a) 211.15%

b) 235.1%

c) 223.53%

d) 232.25%

e) None of these

3. Average number of teacher who teach economics and Maths is how much more or less than the number of teacher who teach Hindi? (Find approx. value)

a) 83

b) 85

c) 52

d) 53

e) None of these

4. Total number of teacher who teach Geography is 20 more than the average number of teacher who teach Hindi and Math together. Then find out number of teacher who teach geography is what % of total number of teacher who teach Computer?

a) 76.67%

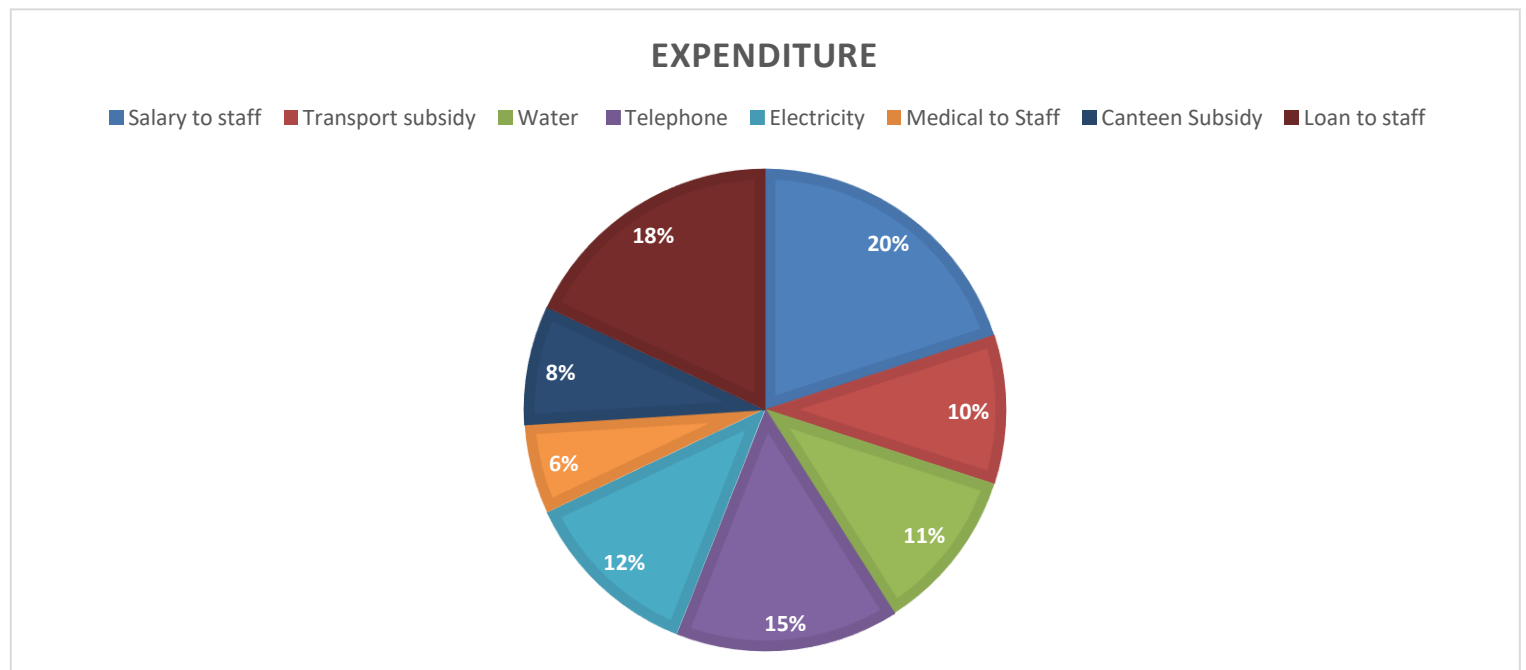b) 67.5%

c) 75%

d) 70%

e) None of the above

5. If % of teacher who teach Economics and Math is interchange with each other. Then find out number of teacher who teach economic is increase or decrease by how much?

a) 38.46% More

b) 38.80% More

c) 48.46% more

d) 28.46% more

e) None of these

Directions (6 – 10): Answer the questions based on the information given below.

Study the following Pie chart carefully and answer the question. Pie chart given below show the Average monthly expenditure of an organization under various head.

Total Expenditure = 3750000

EXPENDITURE

■ Salary to staff   ■ Transport subsidy   ■ Water   ■ Telephone   ■ Electricity   ■ Medical to Staff   ■ Canteen Subsidy   ■ Loan to staff

6. What is the amount spent on transport subsidy and canteen subsidy together?

a) 675500

b) 622500

c) 675000

d) 650000

e) None of these

7. What is the difference between the expenditure on salary to staff and that on loans to staff?

a) 85000

b) 72800

c) 72500

d) 171500

e) None of these

8. The amount spent on medical staff is what percentage more or less than the average amount spent on salary to staff and Electricity?

a) 70.50% less

b) 65.5% less

c) 75.5% less

d) 62.5% less

e) None of these

9. Amount spent on medical and water is increased by 25% to next year, then find out amount spent on medical and water next year?

a) 796875

b) 897550

c) 798550

d) 768240

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e) 755500

10. Amount spent on Canteen Subsidy and Loan to staff is how much % of amount spent on Telephone, Water and Electricity?
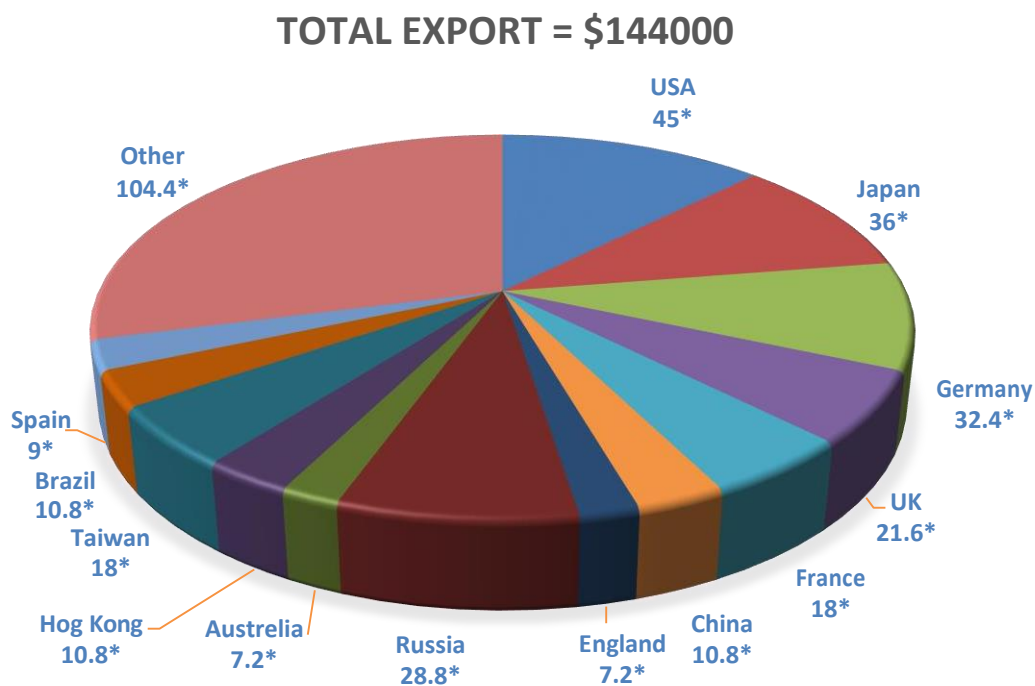
a) 68.42%

b) 61.83%

c) 62.83%

d) 67.55%

e) None of these

Directions (11 – 15): Answer the questions based on the information given below.

Pie chart given below shows the total export of Mango to 13 different countries. Read the data carefully and answer the given question. Data given below is in degrees.

TOTAL EXPORT = $144000

- USA 45*
- Japan 36*
- Germany 32.4*
- UK 21.6*
- France 18*
- China 10.8*
- England 7.2*
- Russia 28.8*
- Austrelia 7.2*
- Hog Kong 10.8*
- Taiwan 18*
- Brazil 10.8*
- Spain 9*
- Other 104.4*

11. Value of export to USA is how much more or less than the value of export of Germany?

a) $5135

b) $5142

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c) $5144

d). $5040

e) None of these

12. Find the difference of the value of the export of Japan and France together to the value of export of UK and Taiwan together?

a) $5750

b) $5760

c) $6550

d) $7650

e) None of these

13. The value of export of the England, UK and Taiwan is how much percentage more or less than the value of export of Brazil, Hog Kong and Australia together?

a) 68.5%

b) 85.6%

c) 95.2%

d) 62.5%

e) 32.5%

14. Find the ratio between total export form USA, Japan and other countries together to total export from Russia and china together?

a) 125:23

b) 115:23

c) 119:22

d) 103:22

e) None of these

15. Find the 36% of total expenditure form other countries?
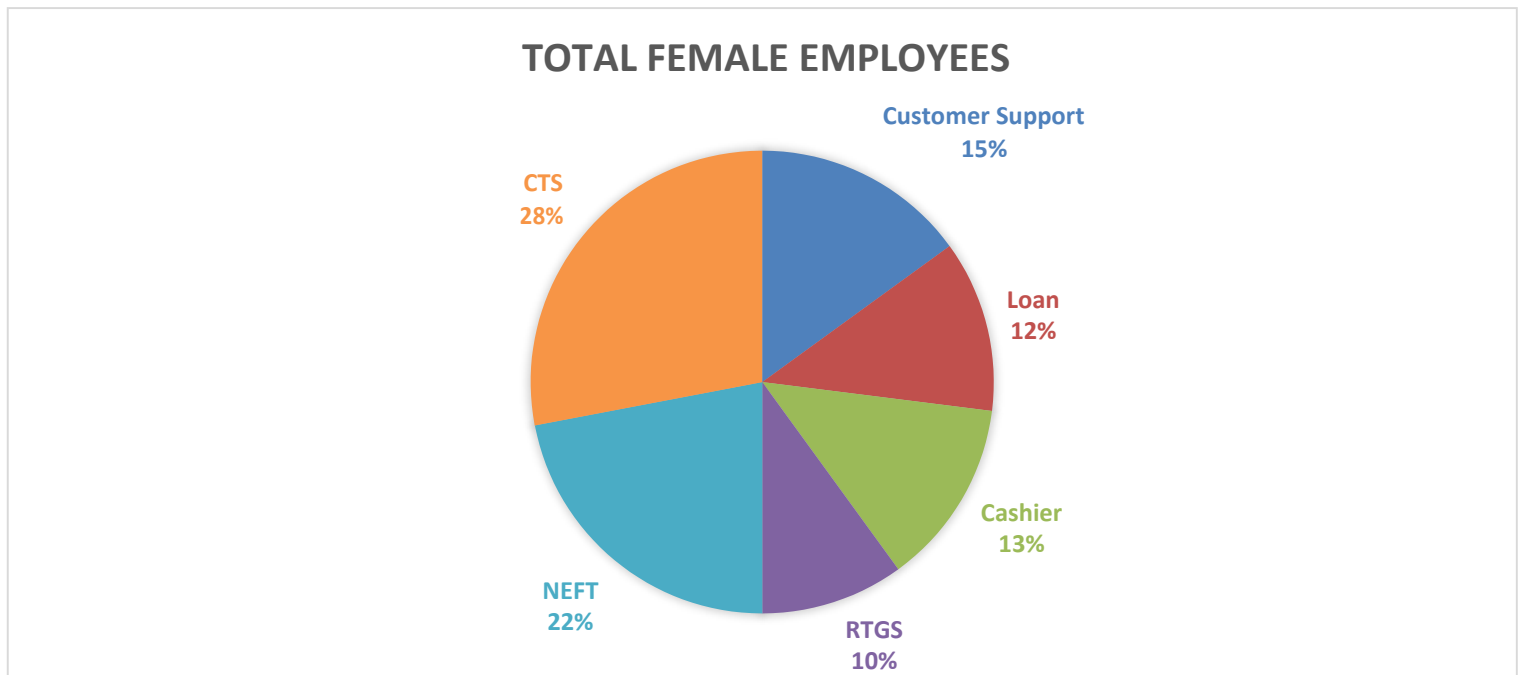
a) $15333.6

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b) $15233.6

c) $15133.6

d) $15033.6

e) None of these

Directions (16-20): Answer the questions based on the information given below.

Pie chart given below show the percentage distribution of total number of Female employees working in SBI at different work post like Customer support, Loan, Cashier, RTGS, NEFT and CTS.

Total female employees working in the organization = 14000

TOTAL FEMALE EMPLOYEES

Customer Support 15%
Loan 12%
Cashier 13%
RTGS 10%
NEFT 22%
CTS 28%

Note - Total number of Male employees working in each work post is 20% more than the number of women in each of the given work post.

16. Find the difference between total number Men and Women working in RTGS and NEFT work post in SBI?

a) 3696

b) 3356

c) 3290

d) 3255

e) None of the above

17. Number of men working as Cashier in SBI is what percentage more or less than the number of Men working as CTS in SBI?

a) 55.55%

b) 53.57%

c) 66.52%

d) 53.25%

e) None of these

18. Find the average number of male and female working in SBI from all the work post?

a) 12400

b) 15800

c) 15400

d) 25200

e) Can't be determined

19. 25 % of Male who work in Loan is promoted as senior loan managers, then find out how many men does not get promotion form the same?

a) 1240

b) 1580

c) 1540

d) 2520

e) None of these

20. Difference between male and female working as customer support is what percentage more or less than the difference between male and female working as NEFT?
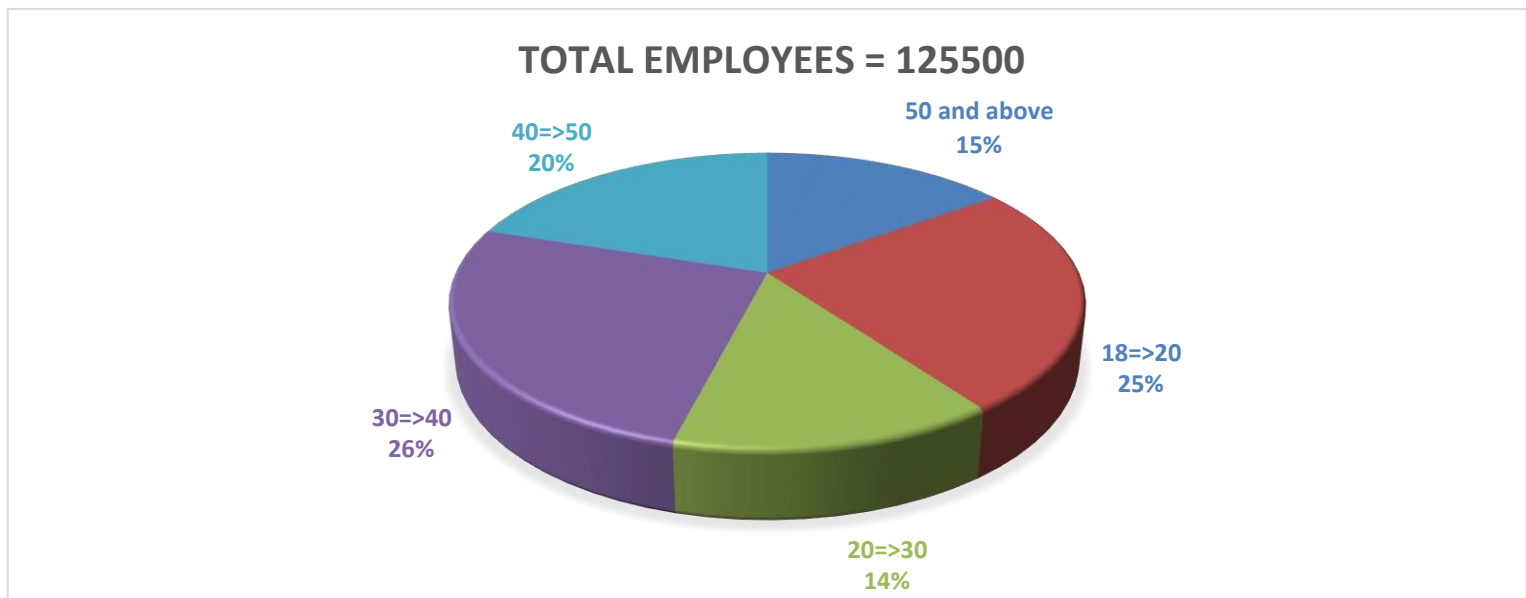
a) 35.23%

b) 33.25%

c) 33.55%

d) 32.81%

e) None of these

Directions (21 – 25): Answer the questions based on the information given below.

The pie chart given below show the percentage distribution of total number of Employees working in SBI of different age group

Total number of employees working in SBI is 125500 in year 2019.

TOTAL EMPLOYEES = 125500

- 50 and above 15%
- 18=>20 25%
- 20=>30 14%
- 30=>40 26%
- 40=>50 20%

21. What is Total number of employees of age group of more than or equals to 20 year?

a) 94125

b) 92250

c) 94150

d) 92250

e) None of these

22. For which of the following age group number of employees is maximum?

a) 20=>40

b) 30=>40

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c) 40 and above

d) 30 and above

e) None of these

23. Find the total number of employee of age of 40 years and above?

a) 80515

b) 55810

c) 43925

d) 75515

e) 54545

24. For the age group of 20 or above, difference between male and female employees are 2500. Then number of male employee of age group of 20 or above is how much percentage more or less than the female of same age group?

a) 52.25%

b) 45.45%

c) 51.25%

d) 54.12%
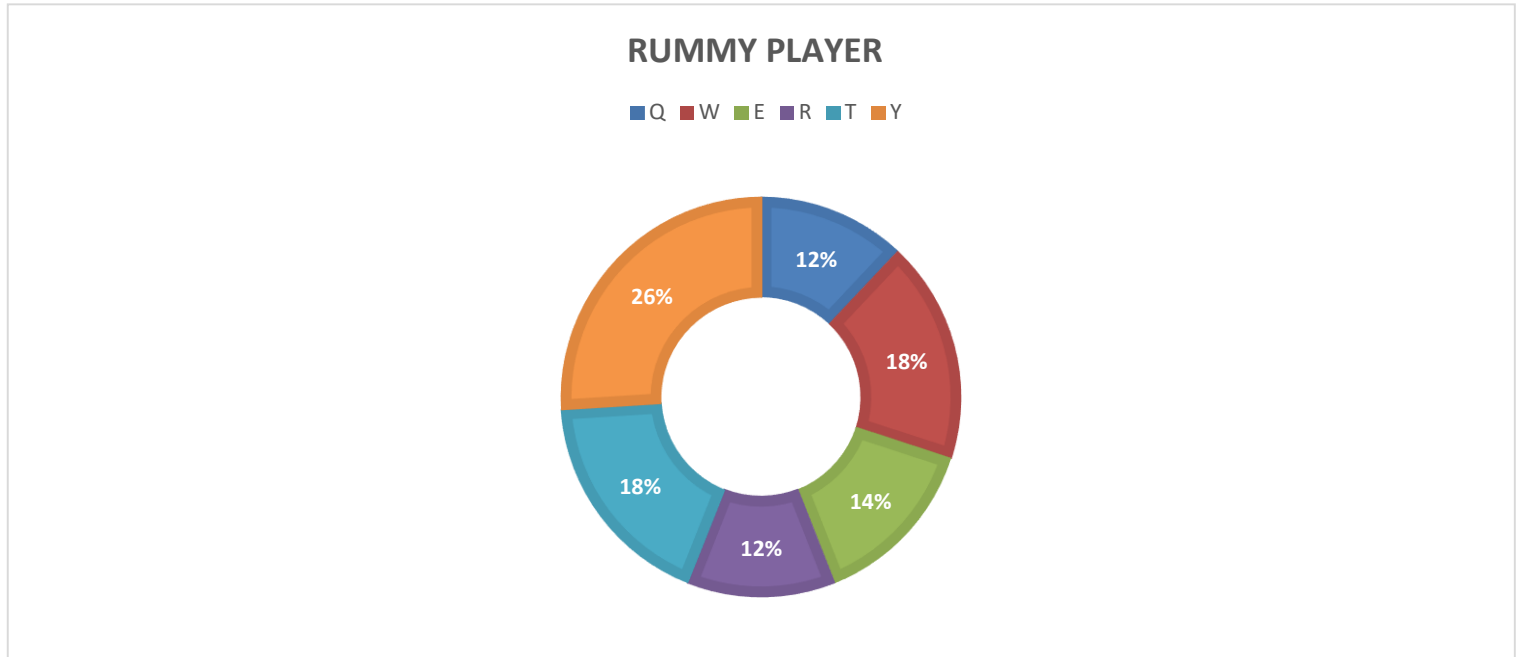
e) can't be determined

25. Employees of age group of 50 or above is going to retire next year and also there are new vacancy of 2540 employees next year, then find out total number of employees working in SBI in next year?

a) 115200

b) 108550

c) 109215

d) Can't be determined

e) None of these

Direction (26-30) Direction : Answer the question based on the information given below

Pie chart given below shows the % distribution of Rummy Player out of total number of Rummy Players in 6 different casino. There are only two types of card game is played i.e. Rummy and Tin Pati. Read the data carefully and answer the question given below. (Total Player = Rummy Player + Tin Pati Player)

RUMMY PLAYER

■ Q ■ W ■ E ■ R ■ T ■ Y

12%
18%
14%
12%
18%
26%

Note – Total Rummy Palayer from all the Casino is 2500 more than the total Tin pati player form all the casino.

- Percentage distribution of Tin pati palaye is 12%, 18%, 14%, 12%, 18% and 26% for Casino Q, W, E, R, T, and Y respectively out of total number of Tin pati player.

26. Find the ratio between total number of Rummy player from R and total number of Tin pati player from same casino. If the Total player from casino R is 5700?

a) 228.225

b) 75:225

c) 271:252

d) 153:222

e) None of these

27. Total number of Tin pati player from T is what % more or less than the total number player form Q who play the same game?

a) 37.5% more

b) 50% more

c) 55.25% more

d) 35.25% more

e) 25.25% less

28. Find the difference between total number of Rummy player to total number of Tin pati players form W, E and R?

a) 1200

b) 840

c) 1100

d) 1020

e) 1050

29. If there are 7500 player who play tin pati form R and T together then find out total number of player who play Rummy from all the casino together?

a) 15500

b) 23500

c) 32200

d) 27500

e) 25500

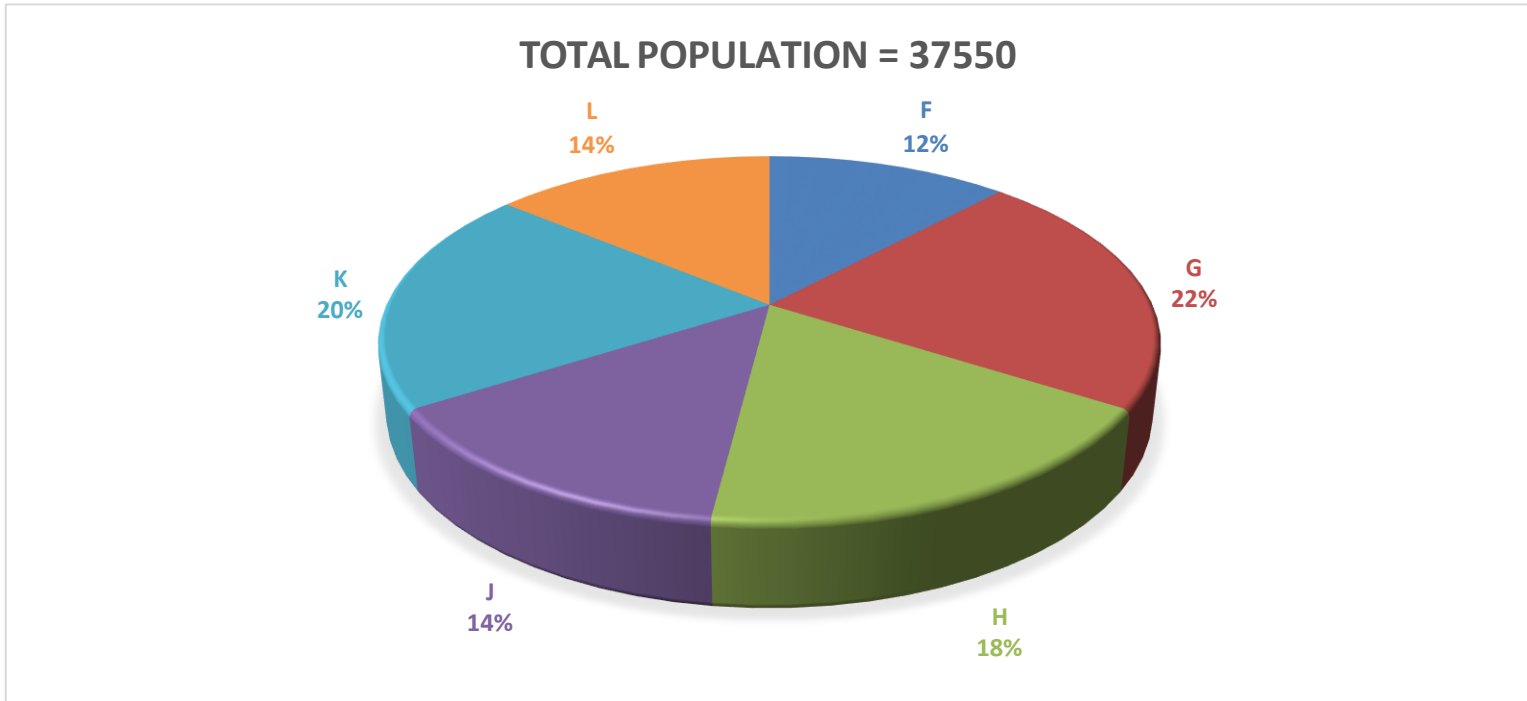**30. Difference between Rummy player and Tin pati player is maximum for which Casino?**

a) R

b) E

c) W

d) Q

e) None of these

Directions (31 – 35): Answer the question based on the following information

Pie chart given below shows population of 6 village. Study the chart carefully & answer the following question.

TOTAL POPULATION = 37550

L 14%
F 12%
G 22%
K 20%
J 14%
H 18%

31. What is the difference between the population of village F & H together to the population of village K & L together?

a) 1502

b) 1280

c) 1320

d) 1350

e) None of these

32. In village H, 33.33% are male, 33.33% are female and remaining are transgender. Find the difference between males and transgender of village H?

a) 0

b) 500

c) 3755

d) 2150

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e) None of these

33. Population of village L & G together is how much percent more than the population of village J?

a) 57.14%

b) 47.25%

c) 55.75%

d) 57.55%

e) None of these

34. Average population of G, H & J all together is how much less than the total population of L and K together?

a) 7008

b) 6008

c) 8008

d) 9008

e) 1108

35. 30% of population of village K doing govt. Job, 40% of population doing Private Job and remaining are unemployed. Find the number of person not doing govt. job?
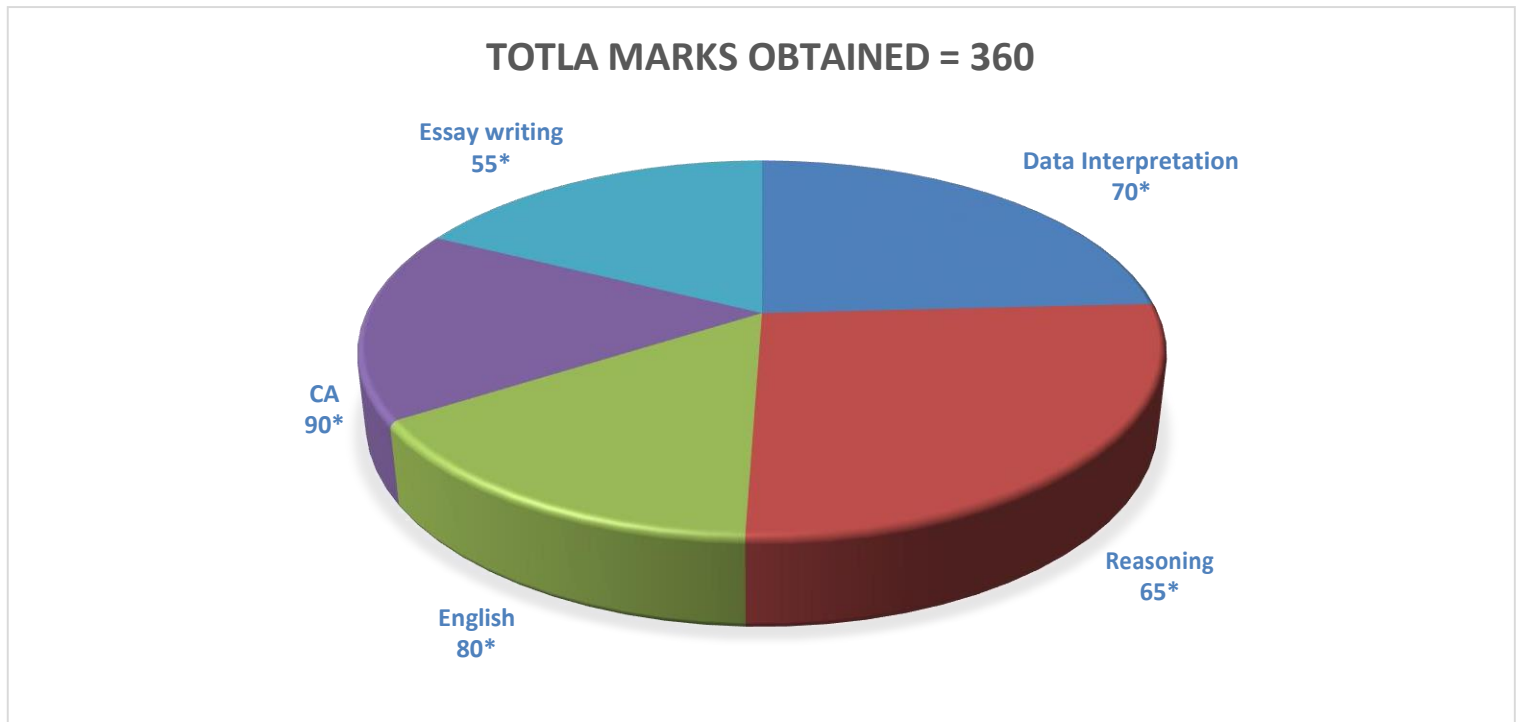
a) 7557

b) 5257

c) 49.57

d) 5152

e) None of the above

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Directions (36 – 40): Answer the question based on the information given below

The following pie chart gives the marks obtained by Pritam in SBI PO Mains in five subjects. The total marks obtained is 360. Read the data carefully and answer the question base on it.

TOTLA MARKS OBTAINED = 360

- Essay writing 55*
- Data Interpretation 70*
- CA 90*
- Reasoning 65*
- English 80*

Note – Data given is in Degree.

36. What percent of the total marks were obtained by Pritam in Data interpretation?

a) 70

c) 65

d) 54

e) None of these

37. The marks scored by Pritam in Essay Writing and Data interpretation together is how much more or less than the marks scored in Reasoning and English together by Pritam?

a) 25

b) 15.5

c) 20

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d) 12.5

e) 17.5

38. Marks obtained in English and CA is how much % more or less than the marks obtained in Data interpretation and Reasoning?

a) 27.82%

b) 25.50%

c) 22.80%

d) 25.93%

e) None of these

39. Passing cutoff of the exam is 80% and Pritam failed the exam by 20 marks. Then find out the maximum mark of the SBI PO Exam?

a) 475

b) 865

c) 845

d) 695

e) None of these

40. Find the ratio between Total marks obtained in CA and English together to Total marks obtained in Data interpretation and Essay writing?
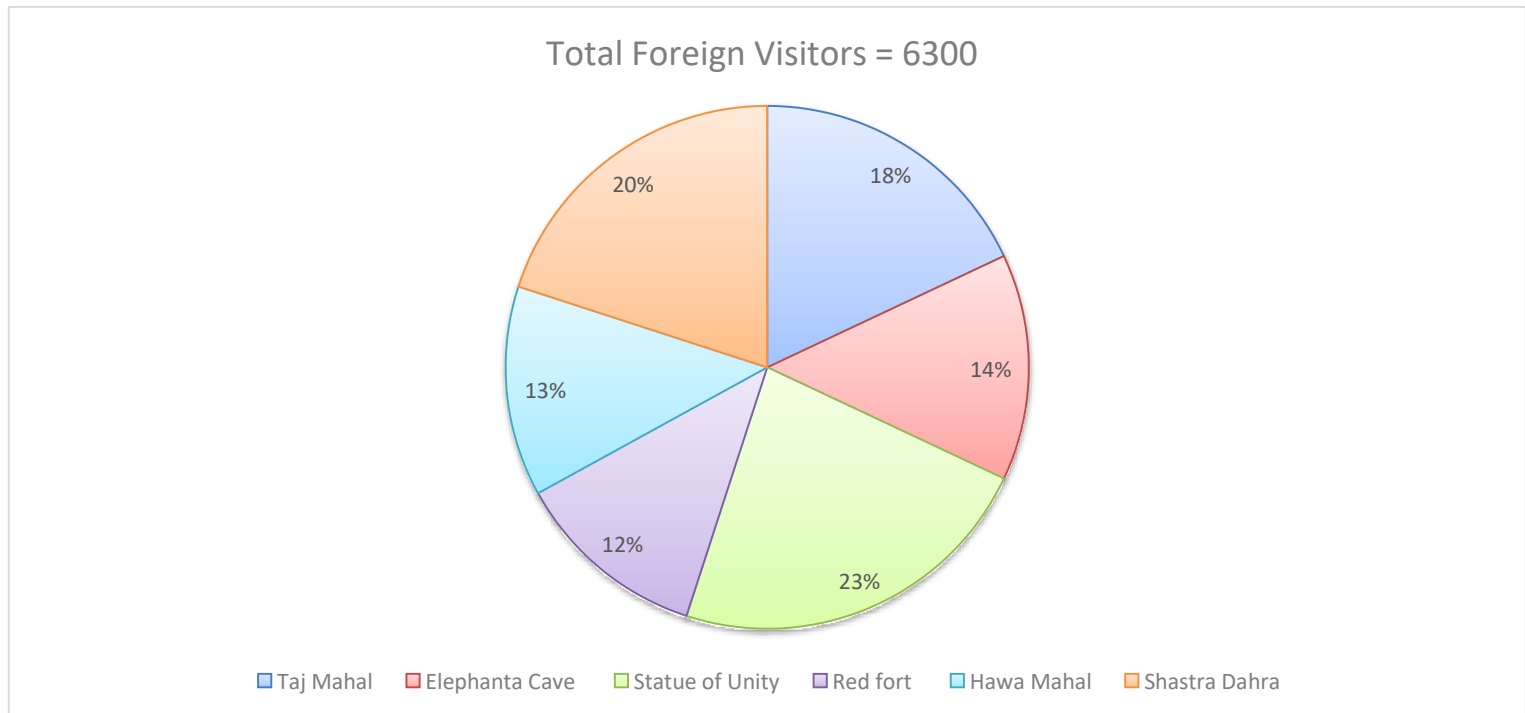
a) 17:33

b) 34:27

c) 22:31

d) 17:25

e) 34:25

Direction (41-45) – Answer the question based on information given below.

Pie chart given below shows the data of foreigners who toured of various Places of India. Read the given data carefully and answer the question based on it.

Total Number of foreigners = 6300

Total Foreign Visitors = 6300

Taj Mahal 18%
Elephanta Cave 14%
Statue of Unity 23%
Red fort 12%
Hawa Mahal 13%
Shastra Dahra 20%

41. What is the number of male foreigners who toured of Taj Mahal and Statue of Unity together, it is also know that ratio between male and female foreigner who visited Taj Mahal and Statue of Unity are 7:2 and 11:12 respectively?

a) 1575

b) 1508

c) 2250

d) 3050

e) None of these

42. The number of foreigners who toured of Elephanta cave is approximately what per cent of the total number of foreigners who toured of all the places except Elephanta cave?

a) 22.25%

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b) 32.45%

c) 16.28%

d) 30.25%

e) None of these

43. What is the respective ratio of the number of female foreigners who visited Red Fort and Shastra Dhara together and the total number of foreigners toured of these states together it is also known that total number of male who visited Red fort is 550 which is 250 less than the male foreigner who visited Shastra Dhara?

a) 74:224

b) 112:39

c) 37:112

d) Both A and C

e) Can't be determined

44. What is the approximate average no. of male foreigners who visited all the places together, if male and female visitors are equal in total?

a) 523

b) 555

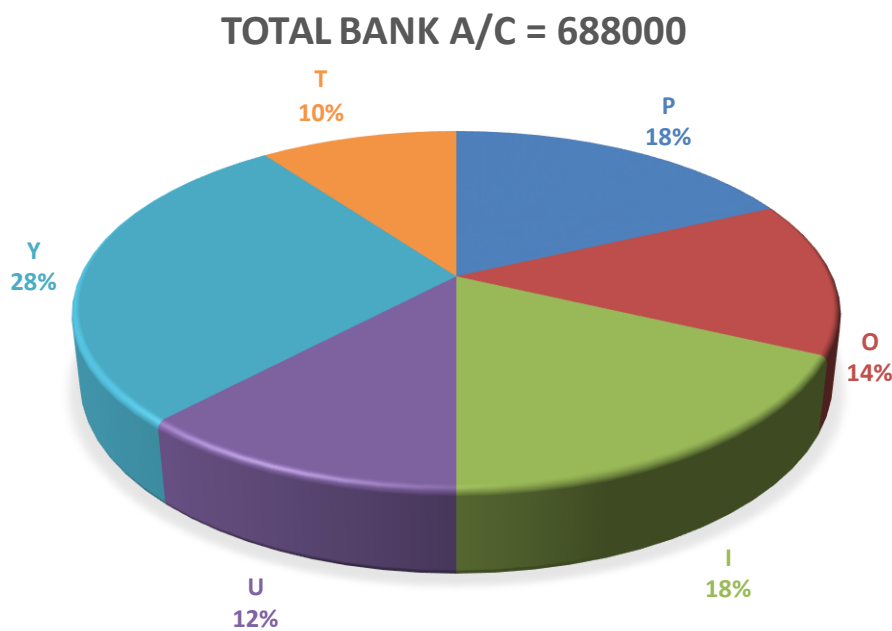c) 525

d) 325

e) None of these

45. Find the difference between total foreign visitors who visited Hawa Mahal and Red Fort together to total number of foreign visitors who visited Statue of unity and Taj Mahal together?

a) 1002

b) 1006

c) 1005

d) 1007

e) None of these

Directions (46 – 50): Study the following graph and answer the following questions.

A survey was done on 688000 people having bank accounts in 6 different banks i.e. P, O, I, U, Y and T. Pie chart given below show the percentage distribution of total number of people whose bank accounts are 6 different bank.

TOTAL BANK A/C = 688000

T 10%
P 18%
O 14%
I 18%
U 12%
Y 28%

46. If the ratio of the number of males and the number of females in bank P is 1 : 2, what is the number of females having bank account in that bank?

a) 82560

b) 58260

c) 85260

d) 72560

e) None of these

47. If the percentage of people aged below 18 is 35% of the total no. of people having accounts in banks U & Y together, find the number of people aged below 18 in both the banks together?

a) 56920

b) 65290

c) 63920

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d) 96320

e) Can't be determined

48. If the percentage of females having accounts in bank Y is 40% of the total accounts there and females having accounts in bank O is 45%, find the ratio of the total number of males in banks Y and O to the total number of females in banks Y and O?

a) 1120:2232

b) 1504:2107

c) 2108:1505

d) 2107:1505

e) None of these

49. What is the percentage increase in the people having accounts in banks I and O in next year, if total number of people having bank account in I and O next year is 256500?

a) 15.28%

b) 16.28%

c) 25.28%

d) 22.28%

e) 16.58%

50. Find the central angle of total number of bank account in bank Y, U and O?

a) 125.5*

b) 194.4*

c) 144.4*

d) 127.7*

e) None of these

Solutions and Detailed Explanations

1-5. Common Explanation:

1. Answer: B)

Number of teacher who teach history and Hindi = 1500* (15+10) % = 375

Number of teacher who teach Economics and Math = 1500*(13+18) % =

465 Require ratio = 375:465 = 25:31

Alternatively,

Required ratio = (15+10) %: (13+18)% = 25:31

2. Answer: E)

Total number of teachers who teach math and Computer = 1500*(18+20) % =

570 Total number of teacher who teach history = 1500*15% = 225

Required % = 570/225 * 100 = 253.33%

3. Answer: A)

Average number of teacher who teach economics and math = 1/2 * 1500 * (13+18)% = 232.5

Total number of teacher who teach Hindi = 1500 *10% = 150

Required difference = 232.5 – 150 = 82.5 or 83 approx.

4. Answer: A)

Number of teacher who teach geography = 20 + {1/2 *1500*(10+18)% } = 230

Required percentage = 230 / (1500*20%) = 210/300 * 100 = 76.67%

5. Answer: A)

Actual number of teacher who teach economics = 1500*13% = 195

Now, after change

Number of teacher who teach economics = 1500*18% = 270

Required % more = 270 – 195 / 195 *100 = 38.46% more

6 – 10: Common Explanation:

6. Answer: C)

Amount spent on transport subsidy and canteen subsidy together = 3750000*(10+8)% = 675000

7. Answer: E)

Difference between the expenditure on salary to staff and that on loans to staff = 3750000 * (20-18)% = 75000

8. Answer: D)

Amount spent on medical staff = 3750000*6% = 225000

Average amount spent on salary and Electricity = 1/2 (20+12)% * 3750000 = 600000

Required difference = 600000-225000/600000 * 100 = 62.5% less

9. Answer: A)

Amount spent on medical and water is increased by 25% to next year

Amount spent on medical and water next year = 125/100 * (6+11)% * 3750000 = 796875

10. Answer: A)

Amount spent on Canteen subsidy and loan to staff = 3750000 * (8+18)% = 975000

Amount spent on Telephone, Water and Electricity = 3750000 * (15+11+12)% = 1425000

Required percentage = 975000/1425000 * 100 = 68.42%

11-15. Common Explanation

11. Answer: D)

Value of export of USA is how much more or less than the value of export of Germany

Required answer = 144000* (45-32.4)/360 = $5040

12. Answer: B)

Difference of the value of the export of Japan and France together to the value of export of UK and Taiwan together

Required answer = 144000 * {(36+18) – (21.6+18)}/360 = $5760

13. Answer: D)

Value of export of the England, UK and Taiwan = 144000 * (7.2+21.6+18)/360 = 18720

Value of export of Brazil, Hog Kong and Australia together = 144000 * (10.8+10.8+7.2)/360 = 11520

Required percentage = 18720-11520/11520 * 100 = 62.5%

14. Answer: D)

Total export form USA, Japan and other countries together = 144000*(45+36+104.4)/360 = 74160

Total export from Russia and china together = 144000 * (28.8+10.8)/360 = 15840

Required ratio = 74160: 15840 = 1854:396 = 309:66 = 103: 22

15. Answer: D)

36% of total expenditure form other countries = 36/100 * 144000 * 104.4/360 = $15033.6

16-20. Common Explanation:

16. Answer: A)

Total number Men and Women working in RTGS = 14000*10% + 14000*10%*120/100 = 1400+1680=3080

Total number Men and Women working in NEFT = 14000*22% + 14000*22%*120/100 = 3080+3696 = 6776

Required difference = 6776-3080 = 3696

17. Answer: B)

Number of men working as Cashier in SBI = 14000*13%*120% = 2184

Number of Men working as CTS in SBI = 14000*28%*120% = 4704

Required percentage = 4704-2184/4704 * 100 = 53.57%

18. Answer: C)

Average number of male and female working in SBI from all the work post = 1/2(14000+14000*120%) = 15400

19. Answer: E)

25 % of Male who work in Loan is promoted as senior loan managers

Required answer = 14000*12%*120/100 *75/100 = 1512

20. Answer: E)

Difference between male and female working as customer support = 14000*15%*120/100 - 14000*15% = 2520 – 2100 = 420

Difference between male and female working as NEFT = 14000*22%*120/100 – 14000*22% = 3696 – 3080 = 616.

Required percentage = 616-420/616 * 100 = 31.81%

21-25. Common Explanation:

21. Answer: A)

Total number of employees of age group of more than or equals to 20 year = 125500 * (14+26+20+15)% = 94125

22. Answer: D)

For the answer we have to check the Given Option

For option no. A = 20=>40 = 14%+26% = 40%

For option no. B = 30=>40 = 26%

For option no. C = 40 and above = 20% + 15% = 35%

For option no. D = 30 and above = 26%+20%+15% = 61%

Required answer is D (as more % as compared to other option)

23. Answer: C)

Total numbers of employees whose age is 40 year and above = 125500*(20+15)% = 43925

24. Answer: E)

Only difference between male and female are known.

We don't know the value of male and female.

25. Answer: C)

Employees of age group of 50 or above = 125500 * 15% = 18825

Now ATQ, Employees working in SBI this year = 125500 – 18825 + 2540 = 109215

26-30. Common Explanation

Let, total number of Tin pati Player = X

ATQ,

And Total number of Rummy Player = X + 2500

26. Answer: A)

Total number of Rummy Player from R = X+2500 * 12% = 0.12X + 300

Total number of Tin Pati player from R = X *12% = 0.12x

ATQ,

0.12X +300 + 0.12X = 5700

X = 22500

Required Ratio = (22500+300)*12% : 22500 *12% = 22800:22500 = 228:225

27. Answer: B)

Total number of Tin Pati Player from T = X * 18% = 0.18X

Total number of Tin Pati Player form Q = X *12% = 0.12X

Required %= (0.18X – 0.12X)/0.12X = 50% more

28. Answer: C)

Difference between total number of Rummy player to total number of Tin pati players form W, E and R = {(X+2500) – (X) } * (18+14+12)% = 2500 * 44% = 1100

29. Answer: D)

Total number of Tin Pati player = 7500/(12+18)% *100= 25000

Total number of Rummy player = 25000+2500 = 27500

30. Answer: E)

Difference between Rummy player and Tin pati player is maximum for which of the following Casino

(As the % is same for both the game that means Maximum %es means Maximum Difference)-

So required answer = 2500 * 26% = 650 for Y

31-35. Common Explanation

31. Answer: A)

Required difference = 37550 * (12+18-20-14)% = 1502

32. Answer: A)

Required difference = 375550 * 18% (33.33% - 33.33%) = 0

(hint - Transgender = 100% - 33.33% - 33.33%)

33. Answer: A)

Required % = (14%+22%) – (14%) / 14% = 57.14%

(Hint Common Population is same so, there is no need to find the value. Use only the % to find the answer)

34. Answer: B)

Average population of G, H & J all together = 37550 * (22+18+14)/3 = 6759

Total population of L and K together = 37550 * (14+20) % = 12767

Required answer = 12767 – 6759 = 6008

35. Answer: B)

Number of person not doing govt. job = 37550 * 20% * (100-30)% = 5257

(Note – Number of person not doing Govt. Job means = PVT. + Other)

36-40. Common Explanation

36. Answer: A)

Total Marks obtained by Pritam in Data interpretation = 360 * 70/360 = 70 marks

37. Answer: C)

Marks scored by Pritam in Essay Writing and Data interpretation together = 360 * (55+70)/360 = 125

Marks scored in Reasoning and English together = 360 * (65+80)/360 = 145

Required answer = 145 – 125 = 20

38. Answer: D

Marks obtained in English and CA = 360 * (80+90)/360 = 170

Marks obtained in Data interpretation and Reasoning = 360 * (70+65)/360 = 135

Required % = 170-135/135 * 100 – 25.93% less

39. Answer: A)

Marks scored by Pritam = 360

Passing marks = 360 +20 = 380

Maximum marks in exam = 380/80 * 100 = 475

40. Answer: E)

Total marks obtained in CA and English = 360 * (90+80)/360 = 170

Total marks obtained in Data interpretation and Essay writing = 360*(70+55)360 = 125

Required ratio = 170:125 = 34:25

41-45. Common Explanation

41. Answer: A)

Male Foreign visitors who visited Taj Mahal = 6300*18%7/9 = 882

Male Foreign visitors who visited Statue of unity = 6300*23%*11/23 = 693

Required answer = 882 + 693 = 1575

42. Answer: C)

Foreigners who toured of Elephanta cave is approximately what per cent of the total number of foreigners who toured of all the places except Elephanta Cave.

Required % = 14%/(100-14)% = 14/86 * 100 = 16.28%

43. Answer: C)

Total number of male who visited Red fort is 550

Total number of male who visited Shastra Dhara = 550+250 = 800

Total number of foreign visitors who visited Red Fort = 6300*12% = 756

Total number of Foreign visitors who visited Shastra Dhara = 6300*20% = 1260

ATQ,

Total female visitors of Red Fort and Shastra Dhara together = (756-550) + (1260-800) = 666

Required ratio = 666 : (756+1260) = 666:2016 = 37:112

44. Answer: C)

Average Male foreign visitors form all the places = 6300/2 * 1/6 = 525

(Hint – as male and female are equal in total, so to find total number of male we have to just divide by 2)

45. Answer: E)

Total foreign visitors who visited Hawa Mahal and Red Fort together = 6300 * (13+12) % = 1575

Total number of foreign visitors who visited Statue of unity and Taj Mahal together = 6300* (23+18)% = 2583

Required difference = 2583 – 1575 = 1008

46-50. Common Explanation

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46. Answer: A)

Number of female having bank account in bank P = 688000*18% * 2/3 = 82560

47. Answer: D)

Number of people whose age is below 18 from U and Y is = 688000 * (12+28)% * 35% = 96320

48. Answer: D)

Total number of people having bank Account in Y = 688000 * 28% = 192640

Total number of Female having bank account in Y = 192640 * 40% = 77056

Total number of male having bank account in Y = 192640 – 77056 = 115584

Total number of people having bank account in O = 688000 * 14% = 96320

Total number of female having bank account in O = 96320*45% = 43344

Total number of male having bank account in O = 96320 – 43344 = 52976

Required ratio = (115584+52976) : (77056+43344) = 168560:120400 = 4214:3010 = 2107:1505

49. Answer: B)

Total number of people Having bank account from I and O = 688000 * (18+14)% = 220160

Total number of people having bank account from I and O next year (given) = 256500

Required % increase = 256000 - 220160/220160 * 100 = 16.28% more

50. Answer: B)

Required angle = (28+12+14)% * 18/5 = 194.4*

(Note – to convert % into degree simply multiply % with 18/5)

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