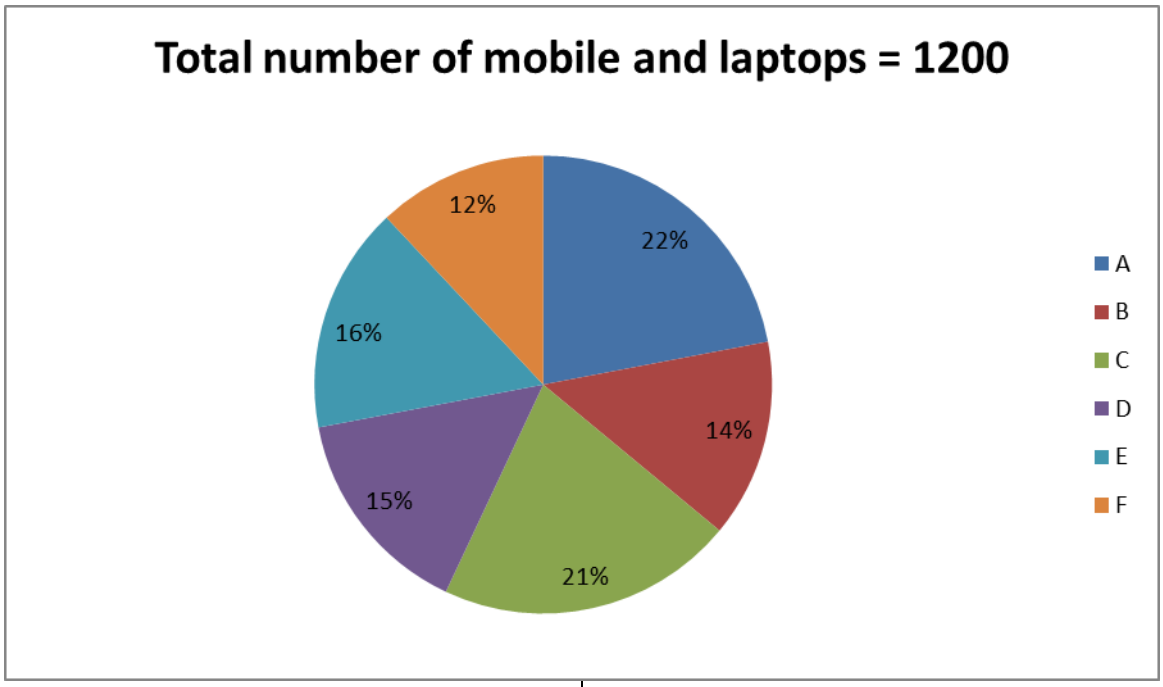
Pie Graph Based DI for Bank PO Prelims Exams

Pie Graph Based DI for Bank PO Prelims Exams

Directions (1-5): Study the following information carefully and answer the questions given below.

The given pie chart shows the number of mobile and laptops manufactured in 6 different companies.



1) The ratio of the number of mobile and laptop manufactured in A and E is 6:5 and 5:3 respectively. The total number of laptop manufactured in A and E together is approximately what percent of the total number of mobile manufactured in A and E together?

a) 73%
b) 78%
c) 80%
d) 68%
e) 82%

2) What is the difference between the number laptop and mobile manufactured in B, if the number of laptop manufactured in B is 40% of the total number of products manufactured in D?

a) 28
b) 26
c) 24
d) 22
e) None of these

3) What is the sum of the total number of laptop manufactured in A and B together?

Statement I: The ratio of total number of Laptop manufactured in A to the total number of mobile manufactured in B is 4:2.

Statement II: Total number of mobile manufactured in A is 20% of the total number of manufactured in D.

Statement III: The number of laptop manufactured in B is 20% of the total number mobile manufactured in D.

a) Only I and II
b) Only II and III

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c) Either I or II and III are sufficient
d) All I, II and III necessary to the answer the question
e) The question can't be answered even with all I, II and III

4) If the number of mobile manufactured in F is 25%, what is the difference between the number of laptop manufactured in F and the total number of products manufactured in C?

a) 134
b) 124
c) 154
d) 144
e) None of these

5)

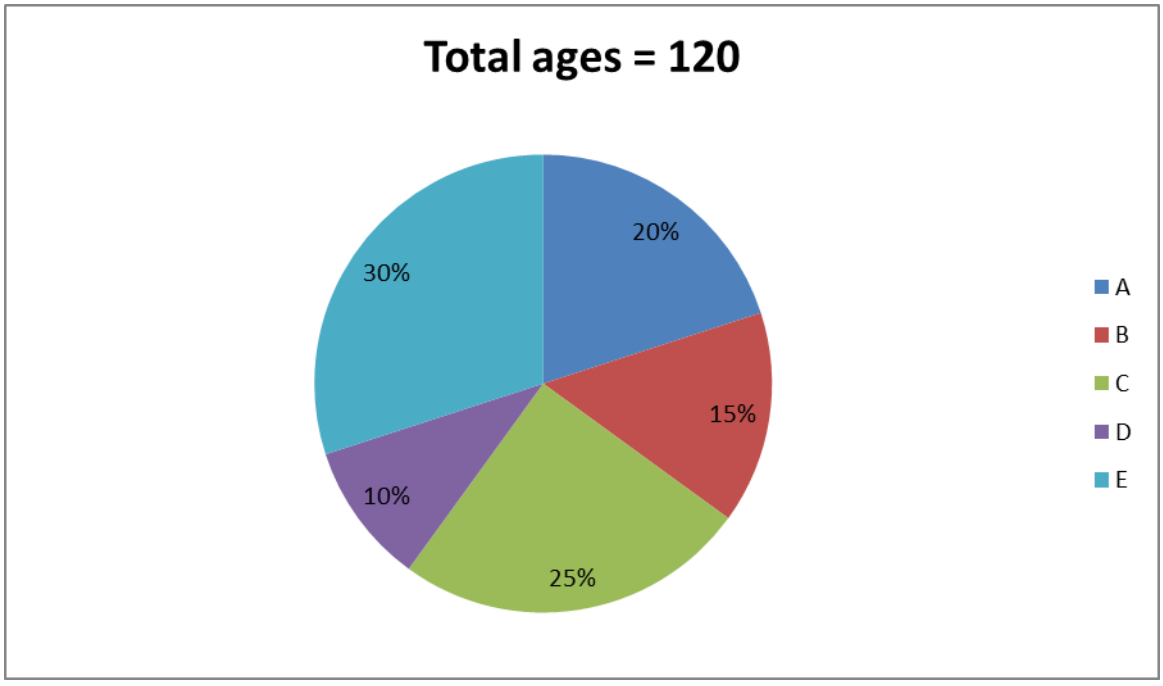
Quantity I: If the ratio of the laptop and mobile manufactured in C is 4:3 and the number of laptop manufactured in E is 25% more than that of number of mobile manufactured in C. What is the sum of the number of laptop manufactured in C and the number of mobile manufactured in E?

Quantity II: What is the average number of products manufactured in F, A, D and B together?

a) Quantity I > Quantity II
b) Quantity I ≥ Quantity II
c) Quantity II > Quantity I
d) Quantity II ≥ Quantity I
e) Quantity I = Quantity II or Relation cannot be established

Directions (6-10): Study the following information carefully and answer the questions given below.

The given pie chart shows the percentage of the ages of five different persons.



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6) The difference between the ages of C and D is equal to the F's age 7 years ago. If the ratio of the ages of F to G after 5 years is 5:8 and H's present age is half of G's age one year ago.What is the difference between the average ages of H, D and E together and the average ages of A and G together?

a) 10.5 years
b) 12.5 years
c) 15.5 years
d) 17.5 years
e) None of these

7) The difference between the ages of D and A is equal to present age of F. Ratio of the ages of F and G after 8 years is 2:3. Find G's age 9 years ago?

a) 12 years
b) 13 years
c) 15 years
d) 18 years
e) None of these

8)If the average ages of B, F and G is 18 years and the E's age is 50% more than G, then the average ages of F and H after 6 years is 25 years, then what is H's age 10 years ago?

a) 20 years
b) 12 years
c) 16 years
d) 24 years
e) None of these

9) Average ages of A, C and E is equal to the sum of the ages of R and S. If the product of the ages of R and D is 156 years, then what is the present age of S?

a) 12 years
b) 15 years
c) 17 years
d) 19 years
e) 21 years

10) The present age of F is 50% more than the present age of G. If the average age of G, D and H is 24 years and ratio of the ages of H to C is 7:5, then what is the average age of F, G and H?

a) 27 years
b) 29 years
c) 31 years
d) 33 years
e) None of these

Directions (11-15): Read the following instructions carefully and answer the following questions

The following pie-chart shows the salary distribution of Mr.X on various expenses.

Total salary of Mr.X = Rs.60000

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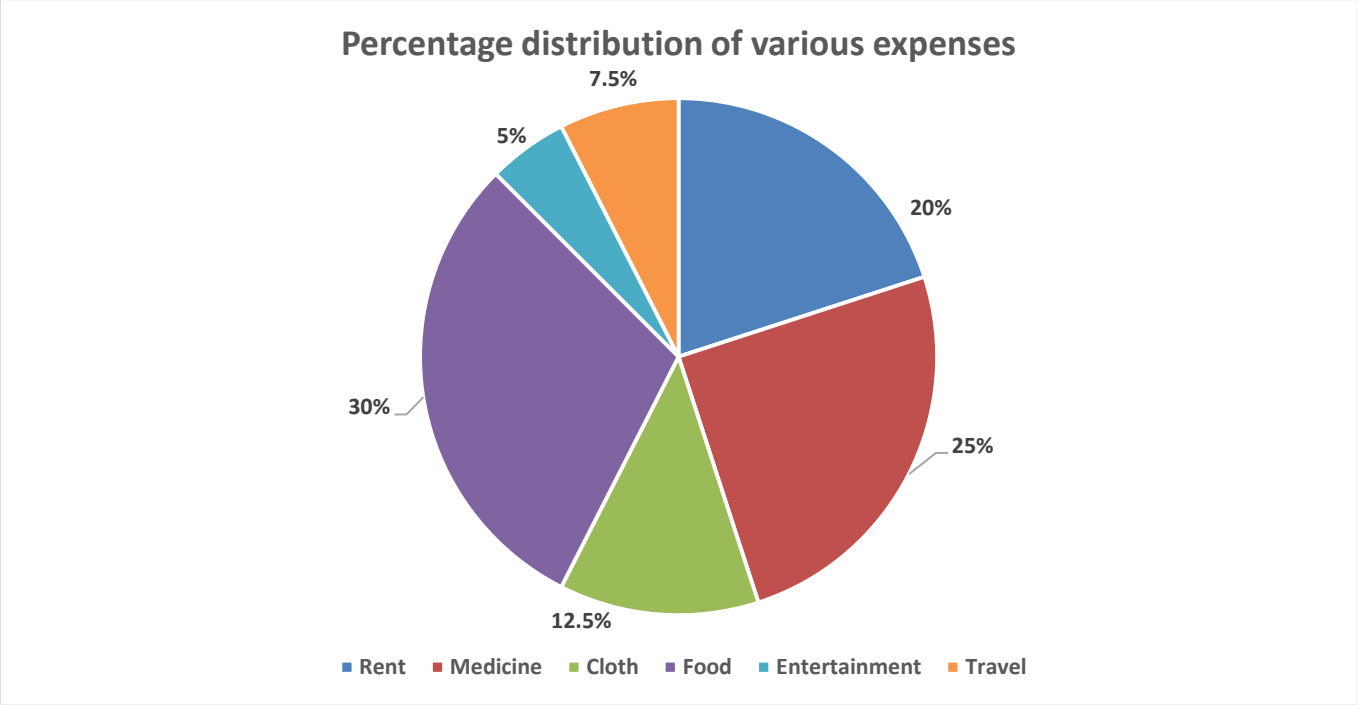

11) What is the ratio between money spent on food and travel together to money spent on rent and medicine together?

a) 5:7

b) 5:3

c) 5:4

d) 5:6

e) 7:5

12) What is total money spent on cloth and food together?

a) Rs.25050

b) Rs.25500

c) Rs.25000

d) Rs.24500

e) Rs.25400

13) Money spent on travel is what percentage more or less than the money spent on entertainment?

a) 50% more

b) 44.44% less

c) 25% more

d) 33.33%less

e) 30% more

14) What is the difference between money spent on travel & entertainment together and food & medicine together?

a) Rs.25050

b) Rs.25400

c) Rs.25500

d) Rs.24050

e) Rs.24500

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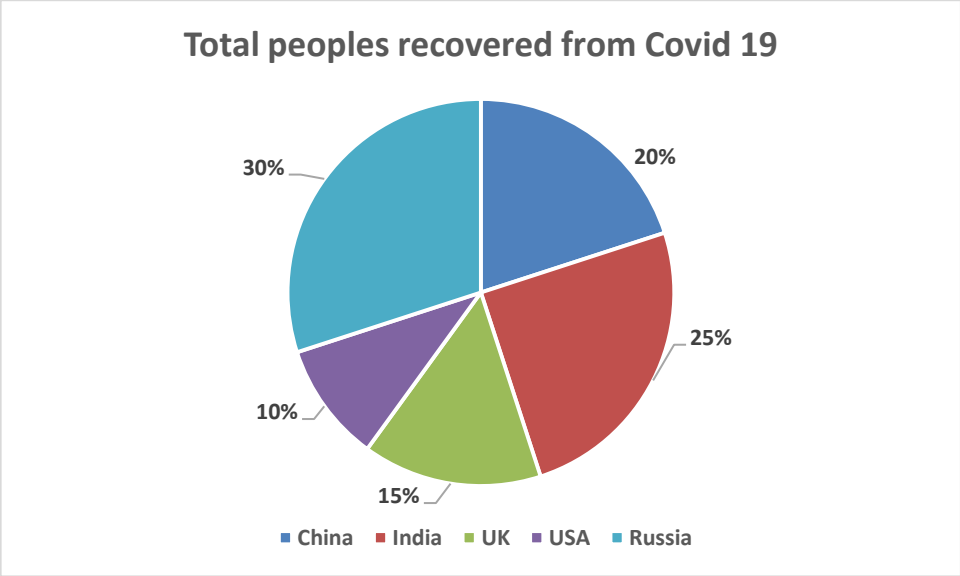
15) If the salary of Mr.X is increased by 25% also he increases expenditure on cloth by Rs.500, then find the percentage of amount he spend to buy cloth?

a) 16.67%
b) 12.5%
c) 10%
d) 11.66%
e) 10.67%

Directions (16-20): Read the following instructions carefully and answer the following questions.

The following pie-chart shows the total peoples recovered from covid 19 in various countries.

Total peoples recovered from covid 19 = 12400



The following table shows the ratio of male to female recovered from covid 19 in various countries **Country**	**Ratio of female to male recovered from covid 19**
China	27:35
India	10:21
UK	15:16
USA	2:3
Russia	43:50

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16) Find the average number of males recovered from covid 19?

a) 1420.8

b) 1340.8

c) 1440.4

d) 1440.8

e) 1404.8

17) No. of recovered female from USA is what percent (approx.) more or less than no. of recovered males from china?

a) 65%less

b) 60%more

c) 70%less

d) 55%more

e) 75%less

18) Find the ratio of sum of the female from India, UK and Russia together recovered from covid 19 to the male recovered from same countries together?

a) 181:263

b) 181:253

c) 253:181

d) 253:161

e) None of the above

19) If only 40% of total people who are affected by covid 19 from India are recovered, then find the number of peoples not recovered from covid 19 in India?

a) 1550

b) 1450

c) 1860

d) 2750

e) None of these

20) Find the overall difference between male and females recovered from covid 19?

a) 2004

b) 2006

c) 2002

d) 2010

e) 2008

Directions (21 – 25): Read the following information given below and answer the following questions

The pie chart given below shows the percentage distribution of number of students in class of 2018 – 2020 PGDM batch in IIT-DELHI coming from different cities: Delhi, Mumbai and Bangalore. Total number of students in a batch is 1600.

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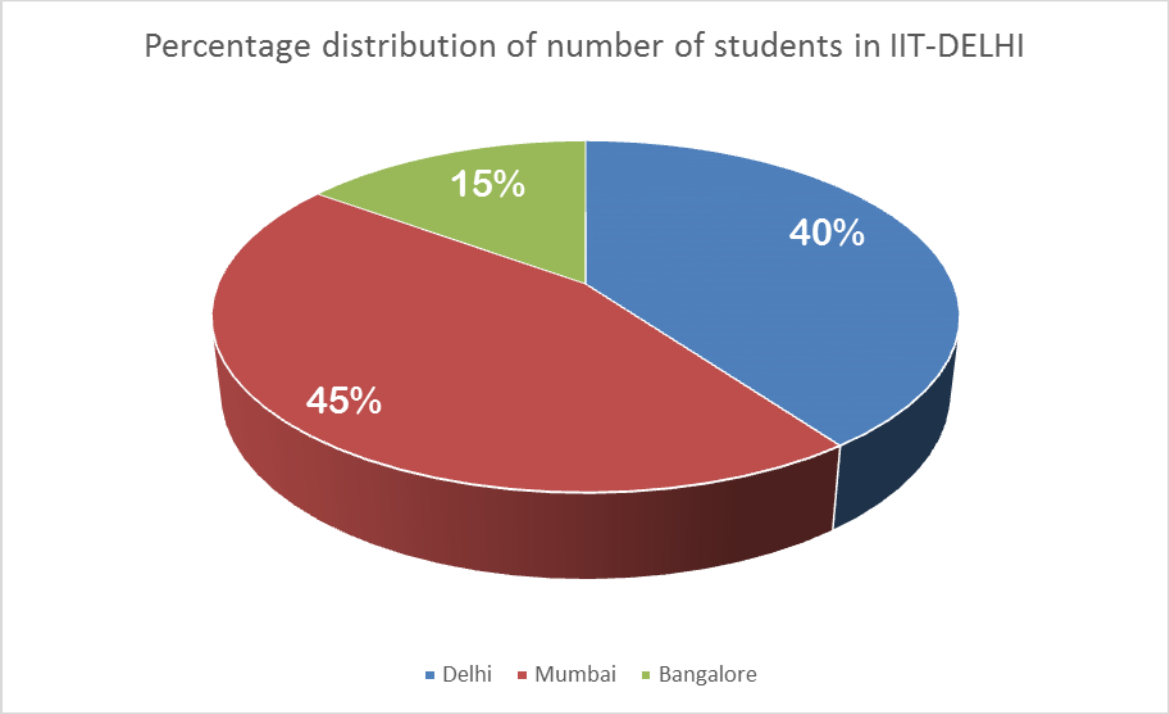


The table given below shows the ratio of engineering background and non-engineering background students in IIT-DELHI coming from three different cities.

City	Engineers: Non Engineers
Delhi	5:3
Mumbai	2:7
Bangalore	4:1

21) Find the ratio of engineers from Delhi and non – engineers from Mumbai respectively?

a) 4:7
b) 7:5
c) 5:7
d) 3:7
e) None of these

22) Find the difference between total engineers and non-engineers students in class of 2018 – 2020 PGDM batch from IIT-DELHI?

a) 76
b) 96
c) 86
d) 56
e) None of these

Pie Graph Based DI for Bank PO Prelims Exams

23) Find the average of engineers from Bangalore and Mumbai together is how much % of non-engineers of Delhi?

a) 73.33%

b) 74.33%

c) 75.33%

d) 76.33%

e) 79.33%

24) Difference between the engineer's students from Mumbai and Non- engineer's students from Bangalore is how much % more or less than the non-engineers students from Mumbai?

a) 20% more

b) 75% less

c) 60% more

d) 80% less

e) None of these

25) Find the value of central angle corresponding to the numbers of students in Delhi and Bangalore together? (in degrees)

a) 155°

b) 160°

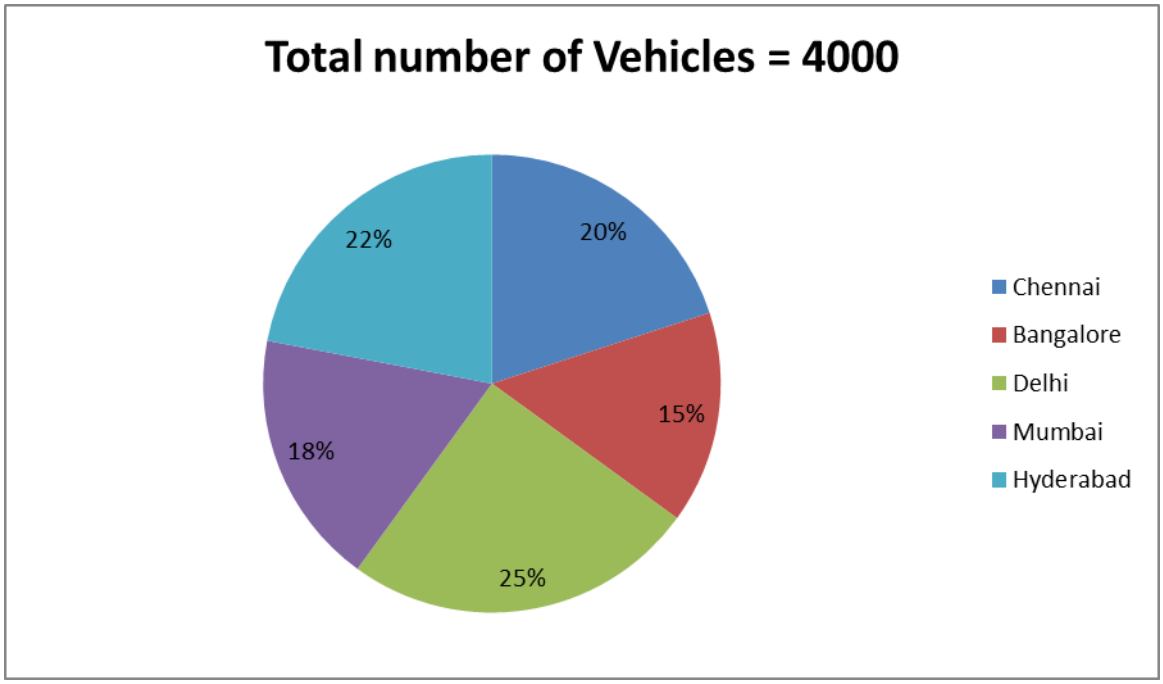
c) 125°

d) 198°

e) None of these

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

The given pie chart shows the percentage of the vehicles in five different cities in 2018.



The given table shows the ratio of the number of Petrol to Diesel vehicles in different cities.

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Cities	Petrol:Diesel
Chennai	5:3
Bangalore	2:1
Delhi	3:2
Mumbai	5:3
Hyderabad	6:5

26) The number of petrol vehicle in Mumbai is approximately what percent of the number of petrol vehicle in Delhi?

a) 65%

b) 70%

c) 75%

d) 80%

e) None of these

27) In 2019 the total number of vehicles in Bangalore and Mumbai is increased by 20% and 25% respectively compared to previous years and the ratio of the number of petrol to Diesel vehicle in Bangalore and Mumbai in 2019 is 5:3 and 2:3 respectively.

Quantity I: Sum of the number of petrol vehicle in Bangalore and Mumbai together in 2019.

Quantity II: Sum of the number of Diesel vehicle in Bangalore and Mumbai together in 2019.

a) Quantity I > Quantity II

b) Quantity I ≥ Quantity II

c) Quantity I = Quantity II

d) Quantity I < Quantity II

e) Quantity I ≤ Quantity II

28) What is the difference between the average number of petrol and Diesel vehicle in all the cities together?

a) 168

b) 170

c) 172

d) 164

e) 162

29) Which of the following cities the number of Diesel vehicles are equal?

a) Chennai and Hyderabad

b) Delhi and Mumbai

c) Bangalore and Chennai

d) Hyderabad and Delhi

e) Mumbai and Bangalore

30) In 2019, the total number of vehicles in Chennai is increased by 25% compared previous year. If the number of petrol vehicle in Chennai in 2019 is equal to the number of petrol vehicle in Hyderabad in 2018, then find the number of Diesel vehicle in Chennai in 2019?

a) 500

b) 520

c) 540

d) 560

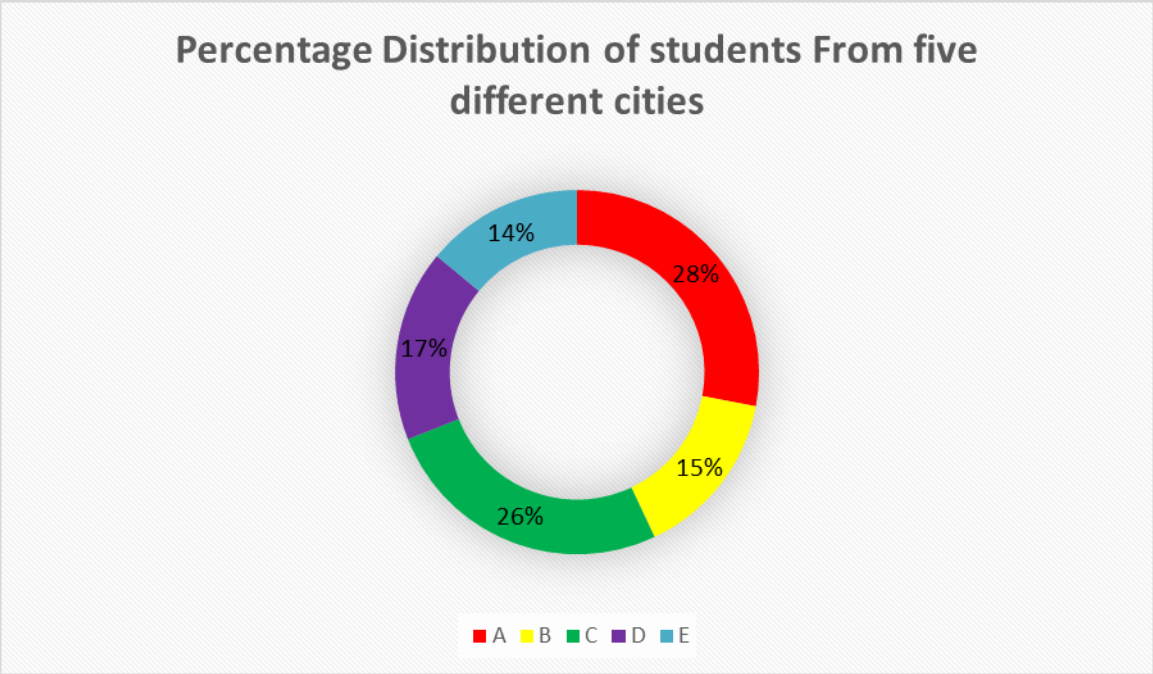
Pie Graph Based DI for Bank PO Prelims Exams

e) None of these

Directions (31 – 35): Read the following information carefully and answer the following questions based on it.

The following Pie Chart shows the % distribution of students those who are writing Xavier's Aptitude Test (XAT) 2020 from five different cities out of total students those are writing XAT – 2020.

Total number of students writing XAT exam in 2020 = 13500



The table given below shows the ratio of boys and girls writing XAT exam in the given cities.

City	Boys: Girls
A	3:4
B	4:5
C	7:6
D	9:8
E	5:4

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31) Find the difference between the total number of boys writing XAT exam in all cities together to total number of girls writing XAT exam in all cities together?
a) 150
b) 75
c) 160
d) 80
e) None of these

32) The number of boys writing XAT exam in city F is 16.66% more than number of girls writing XAT exam in city A and the ratio of number of girls writing XAT exam in city F to boys writing XAT exam in city C is 4:15. Then find the total number of students writing XAT exam in city F?
a) 3034
b) 2024
c) 3024
d) 2034
e) None of these

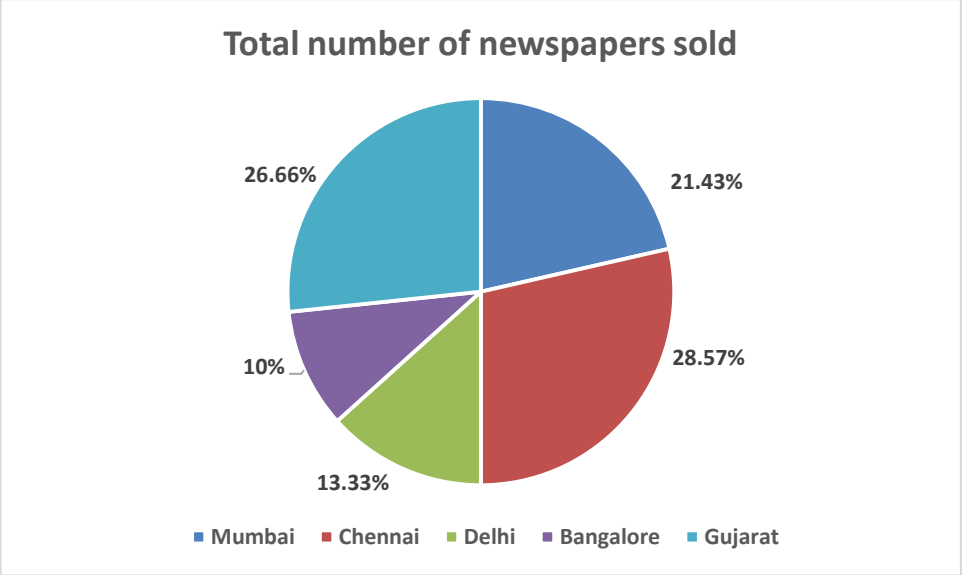
33) Find the average number of total students writing XAT exam from City B and City D together is approximately how much percentage of average number of total students writing XAT exam in city A and E together?
a) 75.2%
b) 76.2%
c) 77.2%
d) 78.2%
e) 79.2%

34) Total number of boys writing XAT exam in City B and E together is approximately how much percentage more/ less than number of girls writing XAT exam in city C and D together?
a) 29.8% more
b) 25.8% less
c) 26.8% more
d) 27.8% less
e) 30.8% less

35) Find the ratio of number of boys writing XAT exam in city A to the total number of students writing XAT exam in city A and city B together?
a) 12:47
b) 17:43
c) 13:43
d) 11:43
e) None of these

Directions (36-40): Study the following information carefully and answer the questions given below.
The following pie-chart shows the percentage distribution of total newspapers sold in different cities
Total newspaper sold = 52500

Pie Graph Based DI for Bank PO Prelims Exams



Total newspaper sold in a city = sum of the no. of TheHindu& Indian express newspaper sold in the city

The following table shows the number of Indian express newspaper sold in various cities

City	Number of Indian express newspaper sold
Mumbai	5250
Chennai	8000
Delhi	4300
Bangalore	2825
Gujarat	4500

36) Total number of Hindu newspaper sold in which city is second lowest?

a) Bangalore

b) Mumbai

c) Delhi

d) Chennai

e) Gujarat

37) Find the ratio of number of Hindu newspaper sold in Chennai and Indian express sold in Bangalore together to the number of Indian express sold in Mumbai and Hindu sold in Gujarattogether?

a) 393:590

b)393:591

c)393:592

d) 590:393

e) 591:393

Pie Graph Based DI for Bank PO Prelims Exams

38) Number of Indian express newspaper sold in Gujarat is what percentage of number of The Hindu newspaper sold in Mumbai?

a) 70%

b) 66.66%

c) 50%

d) 83.33%

e)None of these

39) What is the difference between the average number of Indian Express newspaper sold in all the cities together and the average number of The Hindu newspaper sold in all the cities together?

a) 520

b) 550

c) 440

d) 490

e) 500

40) If there are 25%, 20%, 30% of the Hindu newspapers sold in Delhi, Bangalore and Gujarat respectively are returned due to damage issue, then what is the number of damaged newspaper returned in these cities together?

a) 4010

b) 4030

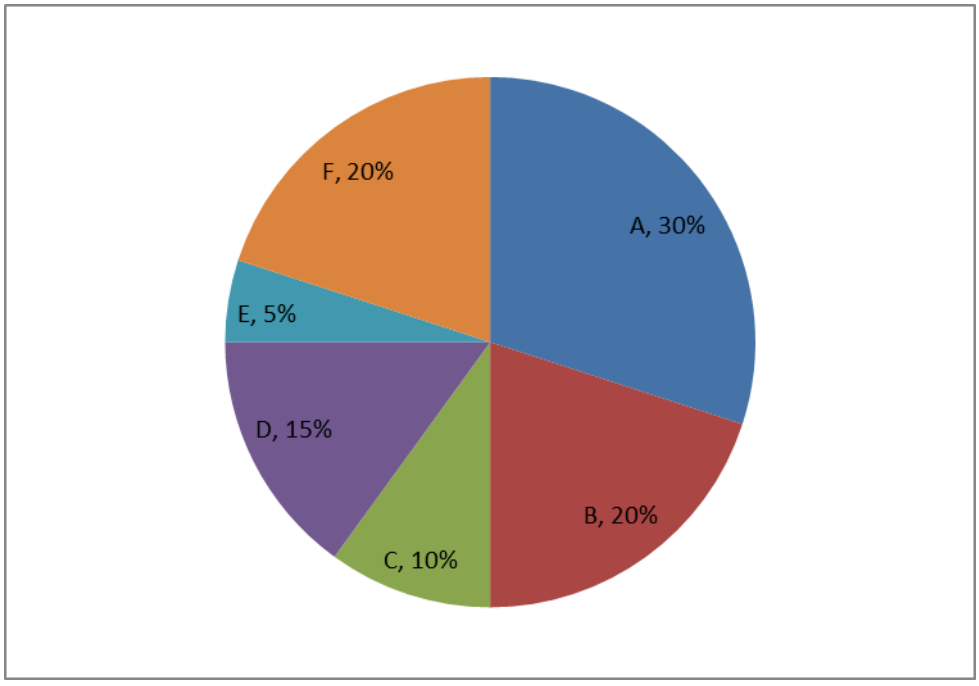
c) 4040

d) 4020

e) 4100

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

Percentage of employees in different departments of an organization



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The table shows the ratio of male to female in different age group

	Below 35 years	Above 35 years
	Male: Female	Male : Female
A	9:11	4:5
B	9:1	3:7
C	7:8	8:7
D	7:8	7:9
E	4:1	5:7
F	7:3	1:9

41) If the total number of employees in department A is 255 and the total number of male employees below 35 years and females employees above 35 years is 131 in department B, then find the ratio of the total number of employees in department B above 35 years to the total number of employees in department B below 35 years?

a) 11:6
b) 10:7
c) 12:5
d) 12:7
e) None of these

42) If the total number of employees in department D is 375 and the total number of male employees above 35 years of age and female employees below 35 years is 122 in department F, then what is the number of male employees below 35 years in department F?

a) 255
b) 265
c) 252
d) 262
e) None of these

43) If the total number of employees in department B below 35 years and above 35 years is 1320 and the number of male employees below 35 years in the same department is 360 then find the number of female employees above 35 years in department B?

a) 644
b) 645
c) 636
d) 684
e) None of these

44) If the number of female employees below 35 years and the number of male employees above 35 years in department E are 40 and 75 respectively, then find the number of employees in company A?

a) 2180
b) 2380
c) 2250

Pie Graph Based DI for Bank PO Prelims Exams

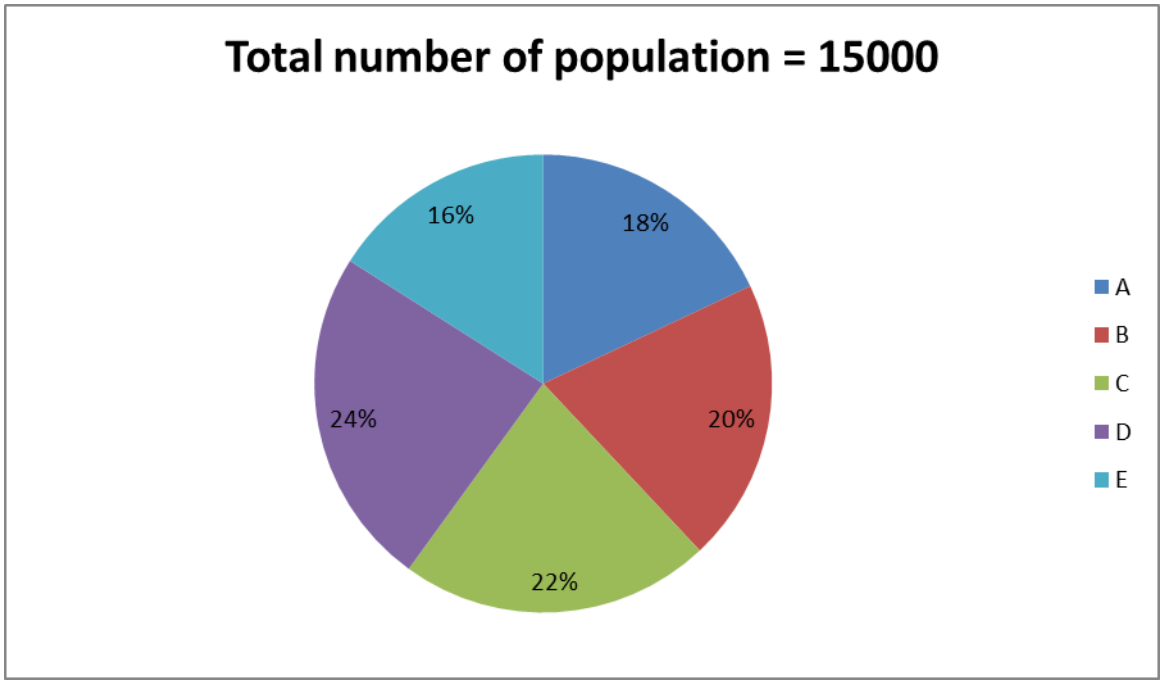
d) 2280
e) None of these

45) The total number of employees in department C is 160. Then what is the number of female employees above 35 years in department D if total employees below 35 years in department D are 96?

a) 85
b) 91
c) 82
d) 71
e) None of these

Directions (46-50): Study the following information carefully and answer the questions given below.

The given pie chart shows the number of population in five different cities.



The given table shows the percentage of male population in five different cities.

Cities	%Male population
A	45%
B	55%
C	65%
D	70%
E	60%

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46) What is the difference between the number of female population in A and D?

a) 400

b) 405

c) 410

d) 415

e) 420

47) Ratio of the number of literate to illiterate population in B is 3:2 and the ratio of the number of male literate to male illiterate population in B is 3:2. What is the difference between the number of female illiterate and female literate population in B?

a) 240

b) 270

c) 300

d) 210

e) 180

48) What is the average number of male population in all the cities together?

a) 1798

b) 1776

c) 1794

d) 1788

e) 1782

49) The number of female population in C and E together is approximately what percent of the total number of population in B?

a) 70.5%

b) 72.5%

c) 74.5%

d) 76.5%

e) 68.5%

50) What is the ratio of the number of female population in B to number of male population A?

a) 5:4

b) 8:7

c) 7:6

d) 3:2

e) None of these

Answer Key Detailed Solution:

Answers:

1) Answer: A

Number of mobile manufactured in A = 22/100 * 1200 * 6/11 = 144

Number of laptop manufactured in A = 22/100 * 1200 * 5/11 = 120

Number of mobile manufactured in E = 16/100 * 1200 * 5/8 = 120

Number of laptop manufactured in E = 16/100 * 1200 * 3/8 = 72

Required percentage = (72+120)/(144+120) * 100 =72.72% ~ 73%

2) Answer: C

Pie Graph Based DI for Bank PO Prelims Exams

Number of laptop manufactured in B = 15/100 * 1200 * 40/100 = 72

Total number of products manufactured in B = 14/100 * 1200 = 168

Number of Mobile manufactured in B = 168 – 72 = 96

Required Difference = 96 – 72 = 24

3) Answer: A

From statement I,

The ratio of total number of Laptop manufactured in A to the total number of mobile manufactured in B is 4:2.

So, Statement I alone is not sufficient to the answer the question.

From Statement II,

Number of products manufactured in D = 15/100 * 1200 = 180

Mobile manufactured in A = 20/100 * 180 = 36

Total number of manufactured products in A = 22/100 * 1200 = 264

Number of Laptop manufactured in A = 264 – 36 = 228

So, Statement II alone is not sufficient to the answer the question.

From Statement III,

The number of laptop manufactured in B is 20% of the total number mobile manufactured in D.

So, Statement III alone is not sufficient to the answer the question.

From Statement I and II,

Number of mobile manufactured in B = 2/4 * 228 = 114

Total number of manufactured products in B = 14/100 * 1200 = 168

Number of Laptop manufactured in B = 168 – 114 = 54

Required total = 54 + 228 = 282

4) Answer: D

Number of laptop manufactured in F=12/100*1200*75/100=108

Total number of manufactured in C=21/100*1200=252

Required Difference=252 – 108=144

5) Answer: A

From quantity I,

Number of laptop manufactured in C= 21/100 * 1200 * 4/7 = 144

Number of mobile manufactured in C = 21/100 * 1200 * 3/7 = 108

Number of laptop manufactured in E = 125/100 * 108 = 135

Total number of manufactured in E = 16/100 * 1200 = 192

Number of mobile manufactured in E = 192 – 135 = 57

Required sum = 144 + 57 = 201

From quantity II,

Total number of products manufactured in A, B, D and F = 63/100 * 1200 = 756

Average = 756/4 = 189

Quantity I>quantity II

6) Answer: A

A = 20/100 * 120 = 24 years

B = 15/100 * 120 = 18 years

C = 25/100 * 120 = 30 years

D = 10/100 * 120 = 12 years

E = 30/100 * 120 = 36 years

Pie Graph Based DI for Bank PO Prelims Exams

F's age 7 years ago = 30 – 12 = 18 years

F's present age = 18 + 7 = 25 years

G age after 5 years = 30 * 8/5 = 48 years

G present age = 48 – 5 = 43 years

H = (43 – 1)/2 = 21 years

Average ages of H, D and E = (21 + 12 + 36)/3 = 23 years

Average ages of A and G = (43 + 24)/2 = 33.5 years

Difference = 33.5 – 23 = 10.5 years

7) Answer: B

F = 24 – 12 = 12 years

After 8 years F's age = 12 + 8 = 20 years

After 8 years G's age = 3/2 * 20 = 30 years

G age 9 years ago = 30 – 8 – 9 = 13 years

8) Answer: C

Average ages of F + G + B = 18 * 3 = 54 years

Ratio of G and E = 100:150 = 2:3

G = 2/3 * 36 = 24 years

F = 54 – 18 – 24 = 12 years

Average ages of H and F = 25 * 2 – 12 = 38

H's present age = 38 – 12 = 26 years

H age 10 years ago = 26 – 10 = 16 years

9) Answer: C

Sum of the ages of S and R = (30 + 24 + 36)/3 = 30 years

R * D = 156

R * 12 = 156

R = 13 years

S = 30 – 13 = 17 years

10) Answer: B

D + G + H = 24 * 3 = 72

H = 7/5 * 30 = 42 years

G = 72 – 12 – 42 = 18years

F = 3/2 * 18 = 27 years

Required Average = (27 + 18 + 42)/3 = 29 years

11) Answer: D

Required ratio = (30+7.5)% of 60000 : (20+25)% of 60000

= 37.5: 45

=5:6

12) Answer: B

Total money spent on cloth = 12.5% of 60000 =Rs.7500

Total money spent on food = 30% of 60000 = Rs.18000

Required sum = 7500+18000 =Rs.25500

13) Answer: A

Required percentage = $\frac{7.5-5}{5}$ ×100 = 50% more

14) Answer: C

Required difference = (30+25)% of 60000 – (7.5+5)% of 60000

= 55% of 60000 – 12.5% of 60000

= 42.5% of 60000

= Rs.25500

15) Answer: E

New salary of the person = 125% of 60000 = Rs.75000

Expenditure on cloths = 12.5% of 60000 = Rs.7500

New expenditure on cloths = 7500+500 = Rs.8000

Percentage of expenditure on cloth = $\frac{8000}{75000}$ ×100 = 10.67%

Pie Graph Based DI for Bank PO Prelims Exams

Directions (16-20):

From pie-chart,

Peoples recovered from covid 19 in china = 20% of 12400 =2480

Number of males recovered from covid 19 in china = $\frac{2480}{62}$ ×35 =1400

Therefore, number of female recovered from covid 19 in china

= $\frac{2480}{62}$ ×27 = 1080

Similarly, values for all the countries are found and the results are tabulated.

Country	No. of males recovered	No. of females recovered	Total
China	1400	1080	2480
India	2100	1000	3100
UK	960	900	1860
USA	744	496	1240
Russia	2000	1720	3720

16) Answer: D

Required average = $\frac{1400+2100+960+744+2000}{5}$ = 1440.8

17) Answer: A

Required percentage = $\frac{1400-496}{1400}$ ×100 =65%less

18) Answer: B

Sum of the females recovered from India , UK, Russia

= 1000+900+1720

=3620

Sum of the males recovered from India , UK, Russia

= 2100+960+2000

= 5060

Required ratio = 3620: 5060 i.e 181:253

19) Answer: E

Total peoples recovered from covid 19 in India = 3100

Peoples who have not recovered from covid 19 = $\frac{3100}{40}$×60 = 4650

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20) Answer: E

Total number of males recovered from covid 19

= 1400+2100+960+744+2000

= 7204

Total number of females who recovered from covid 19

= 12400 -7204

= 5196

Required difference = 7204 – 5196 = 2008

Directions (21 – 25):

City	Students	Engineers	Non – engineers
Delhi – 40%	40% of 1600 = 640	(5/8) x 640 = 400	240
Mumbai – 45%	45% of 1600 = 720	(2/9) x 720 = 160	560
Bangalore – 15%	15% of 1600 = 240	(4/5) x 240 = 192	48

21) Answer: C

Required ratio = 400: 560 = 5: 7

22) Answer: B

Total number of engineers = 400 + 160 + 192 = 752

Total number of non-engineers = 240 + 560 + 48 = 848

Required difference = 848 – 752 = 96

23) Answer: A

Average number of engineers from Bangalore and Mumbai together = (160 + 192)/2 = 176

Number of non-engineers in Delhi = 240

Required % = (176/240) x 100 = 73.333 %

24) Answer: D

Difference = 160 – 48 = 112

Non-engineers from Mumbai = 560

Required % change = ((560 – 112)/560) x 100 = 80% less

25) Answer: D

Combined % distribution of Delhi and Bangalore together = 40 + 15 = 55%

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Required angle = 55% of 360 = 198°

Directions (26-30):

Cities	Total vehicles	Petrol	Diesel
Chennai	800	500	300
Bangalore	600	400	200
Delhi	1000	600	400
Mumbai	720	450	270
Hyderabad	880	480	400

26) Answer: C

Required percentage = 450/600 * 100 = 75%

27) Answer: C

Total number of vehicles in Bangalore in 2019 = 600 * 120/100 = 720

Number of petrol vehicle in Bangalore = 720 * 5/8 = 450

Number of Diesel vehicle in Bangalore = 3/8 * 720 = 270

Total number of vehicles in Mumbai in 2019 = 720 * 125/100 = 900

Number of petrol vehicle in Mumbai = 900 * 2/5 = 360

Number of Diesel vehicle in Mumbai = 900 * 3/5 = 540

From quantity I,

Required sum = 450 + 360 = 810

From quantity II,

Required sum = 270 + 540 = 810

Quantity I = quantity II

28) Answer: C

Average number of petrol vehicle = (500 + 400 + 600 + 450 + 480)/5 = 486

Average number of Diesel vehicle = (300 + 200 + 400 + 270 + 400)/5 = 314

Required Difference = 486 – 314 = 172

29) Answer: D

30) Answer: B

In 2019 total number of vehicles in Chennai = 800 * 125/100 = 1000

Number of petrol vehicle in Chennai in 2019 = 480

Number of Diesel vehicle in Chennai in 2019 = 1000 – 480 = 520

Directions (31 – 35):

Total students writing XAT exam in A = 28% of 13500 = 3780

Boys in city A = 3/7 x 3780 = 1620

Girls in City A = 4/7 x 3780 = 2160

Similarly, we find in all the cities

City	Total students writing XAT exam	Boys	Girls
A	3780	1620	2160
B	2025	900	1125
C	3510	1890	1620
D	2295	1215	1080
E	1890	1050	840

31) Answer: A

Total number of boyswriting XAT exam in all cities together = 1620 + 900 + 1890 + 1215 + 1050 = 6675

Total number of girls writing XAT exam in all cities together = 2160 + 1125 + 1620 + 1080 + 840 = 6825

Required difference = 150

32) Answer: C

Number of boys writing XAT exam in city F = 7/6 x 2160 = 2520

Number of girls writing XAT exam in city F = 4/15 x 1890 = 504

Total students from city Fwriting XAT exam = 2520 + 504 = 3024

33) Answer: B

Average students writing XAT exam in City B and City D together = (2025 + 2295)/2 = 2160

Average studentswriting XAT exam in City A and City E together = (3780 + 1890)/2 = 2835

Required percentage = [2160/2835] x 100 = 76.2%

34) Answer: D

Number of boys in B and E together = 900 + 1050 = 1950

Number of girls in C and D together = 1620 + 1080 = 2700

Required % change = [(2700 – 1950) / 2700] x 100 = 27.8% less

35) Answer: E

Number of boys in city A = 28% x 3/7 = 12%

Total students in city A and city B together = 28% + 15% = 43%

Hence required ratio = 12%:43% = 12:43

Directions (36-40):

From the given pie-chart,

Total newspaper sold in Mumbai = 21.43% of 52500 = $\frac{3}{14}$ (52500) = 11250

Total newspaper sold in Chennai = 28.57% of 52500 = $\frac{2}{7}$ (52500) = 15000

Total newspaper sold in Delhi = 13.33% of 52500

= (33.33% -20%) of 52500

= ($\frac{1}{3}$ $\frac{1}{5}$) of 52500

= $\frac{2}{15}$ (52500)

= 7000

Total newspaper sold in Bangalore = 10% of 52500 = 5250

Therefore,

Total newspaper sold in Gujarat = 52500 – (11250+15000+7000+5250)

= 14000

City	Number of Indian express newspaper sold	Number of The Hindu newspaper sold	Total newspapers sold
Mumbai	5250	6000	11250
Chennai	8000	7000	15000
Delhi	4300	2700	7000
Bangalore	2825	2425	5250
Gujarat	4500	9500	14000

36) Answer: C

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Number of the Hindu newspaper sold in Delhi is second lowest i.e. 2700

37) Answer: A

Required ratio (7000+2825): (5250+9500)

9825:14750

393:590

38) Answer: E

Required percentage = $\frac{4500}{6000}$×100 = 75%

39) Answer: B

Total number of Indian express newspaper sold in all the cities together

= 5250+8000+4300+2825+4500

= 24875

Average of no. of Indian express sold in all the cities together

= $\frac{24875}{5}$

=4975

Total number of The Hindu newspaper sold in all the cities together

= 52500 – 24875

= 27625

Average of The Hindu newspapers sold in all the cities together

= $\frac{27625}{5}$

= 5525

Required difference = 5525 – 4975 = 550

40) Answer: A

Number of damaged newspaper = 25% of (2700) + (20% of 2425) + (30% of 9500)

= 675 + 485 + 2850

= 4010

41) Answer: A

Total number of employees in the organization = $255\ x\frac{100}{30} = 850$

So, total number of employees in B = $850\ x\frac{20}{100} = 170$

Let the total number of employees in B below 35 years and above 35 years be X and Y respectively.

Then,

$\frac{9}{10}X + \frac{7}{10}Y = 131$

9X + 7Y = 1310 -------(i)

Also X+Y = 170 ---------(ii)

Solving (i) & (ii), we get

X = 60 and Y = 110

Required ratio = 110:60

= 11:6

42) Answer: C

Total number of employees in the organization = $\frac{375}{15}\ x\ 100 = 2500$

Now, total number of employees in F = $2500\ x\frac{20}{100} = 500$

Let the number of employees below 35 years and above 35 years be X and Y in department F respectively.

So, X + Y = 500 ---------(i)

$\frac{1}{10}Y + \frac{3}{10}X = 122$

3X + Y = 1220 --------(ii)

Solving (i) and (ii), we get

X = 360 and Y = 140

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Thus, the number of males below 35 years in F = $\frac{7}{10} x\ 360 = 252$

43) Answer: A

Let the employees below 35 year be B_{35} and those above 35 be A_{35}

$B_{35} + A_{35} = 1320$

B_{35} male employees = 360

9 = 360

10 = $\frac{360}{9} x\ 10 = 400$

A_{35} total employees = 1320 – 400 = 920

A_{35} female employees = $\frac{920}{10} x\ 7 = 644$

44) Answer: D

Total number of employees below 35 years in E = $40\ x\ \left(\frac{4+1}{1}\right)$ = 200

Total number of employees above 35 years in E = $75\ x\ \left(\frac{7+5}{5}\right)$= 180

So, the total number of employees in E = 200 + 180 = 380

Total number of employees in A = $\frac{380}{5} x\ 100\ x \frac{30}{100} = 2280$

45) Answer: E

Total number of employees in D = $\frac{160\ x\ 100}{10} x \frac{15}{100} = 240$

So, the number of employees above 35 years in D = 240 – 96 = 144

The number of female employees above 35 years in D = $\frac{144}{16} x\ 9 = 81$

46) Answer: B

Cities	Total	Male population	Female population
A	2700	1215	1485
B	3000	1650	1350
C	3300	2145	1155
D	3600	2520	1080
E	2400	1440	960

Difference = 1485 – 1080 = 405

47) Answer: B

Number of literate population in B = 3/5 * 3000 = 1800

Number of illiterate population in B = 2/5 * 3000 = 1200

Number of male literate population = 3/5 * 1650 = 990

Number of male illiterate population = 2/5 * 1650 = 660

Number of female literate population = 1800 – 990 = 810

Number of female illiterate population = 1200 – 660 = 540

Difference = 810 – 540 = 270

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48) Answer: C

Required average = (1215 + 1650 + 2145 + 2520 + 1440)/5 = 1794

49) Answer: A

Required percentage = [(1155 + 960)/3000] * 100 = 70.5%

50) Answer: E

Required ratio = 1350:1215 = 10:9