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

The following table shows the total number of Professionals from different departments in different years in a certain city and the percentage of female among them.

<table>
<thead>
<tr>
<th>Years</th>
<th>Engineering</th>
<th>Law</th>
<th>Medicine</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total</td>
<td>% of female</td>
<td>Total</td>
</tr>
<tr>
<td></td>
<td>employees</td>
<td></td>
<td>employees</td>
</tr>
<tr>
<td>2013</td>
<td>650</td>
<td>48 %</td>
<td>450</td>
</tr>
<tr>
<td>2014</td>
<td>720</td>
<td>45 %</td>
<td>560</td>
</tr>
<tr>
<td>2015</td>
<td>680</td>
<td>60 %</td>
<td>620</td>
</tr>
<tr>
<td>2016</td>
<td>540</td>
<td>40 %</td>
<td>650</td>
</tr>
<tr>
<td>2017</td>
<td>660</td>
<td>50 %</td>
<td>700</td>
</tr>
</tbody>
</table>

1) Find the difference between the number of male engineering professionals in the year 2015 to that of number of female Law professionals in the year 2013?
   a) 43     b) 24     c) 65     d) 52     e) None of these

2) Find the ratio between the number of male medical professionals in the year 2014 to that of number of female engineering professional in the year 2013?
   a) 23: 57  b) 51: 79  c) 5: 13  d) 11: 39  e) None of these

3) What is the difference between the total number of engineering professionals and total number of medical professionals in all the given years together?
   a) 2450    b) 2300    c) 2440    d) 3340    e) 1430

4) Find the average number of male law professionals in the year 2013, 2015 and 2017 together?
   a) 314    b) 352    c) 287    d) 275    e) None of these

5) Number of medical professionals in the year 2014 is approximately what percentage the number of engineering male professionals in the year 2016?
   a) 42 %  b) 49 %  c) 28 %  d) 15 %  e) 66 %

Directions (Q. 6 – 10) Study the following information carefully and answer the given questions.
The following pie chart shows the total population in 5 different cities in a certain state and the table shows the ratio of male and female among them.

### Total population = 20 lakhs

<table>
<thead>
<tr>
<th>City</th>
<th>Male : Female</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>5 : 3</td>
</tr>
<tr>
<td>Q</td>
<td>4 : 5</td>
</tr>
<tr>
<td>R</td>
<td>6 : 5</td>
</tr>
<tr>
<td>S</td>
<td>2 : 1</td>
</tr>
<tr>
<td>T</td>
<td>11 : 8</td>
</tr>
<tr>
<td>U</td>
<td>9 : 11</td>
</tr>
</tbody>
</table>

6) Total male population of city P is what percentage of total female population of city R?
   a) 110 %  
   b) 100 %  
   c) 90 %   
   d) 80 %   
   e) 125 %

7) Find the difference between the total male population of city Q to that of total female population of city S?
   a) 80000  
   b) 50000  
   c) 60000  
   d) 75000  
   e) None of these

8) Find the average female population in city P, Q and S together?
   a) 140000  
   b) 160000  
   c) 150000  
   d) 130000  
   e) None of these

9) Find the ratio between the total population in city T to that of total male population in city U?
   a) 25: 11  
   b) 29: 13  
   c) 35: 16  
   d) 38: 9   
   e) None of these

10) Find the central angle of city Q?
    a) 72.50   
    b) 64.80   
    c) 68.20   
    d) 75.60   
    e) None of these

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Directions : (11 – 15) Study the following information carefully and answer the given questions.

The following table shows the total number of people (In thousands) joining in 4 different forces in 6 different years.

<table>
<thead>
<tr>
<th></th>
<th>Army</th>
<th>Navy</th>
<th>Air force</th>
<th>BSF</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>5.4</td>
<td>2.6</td>
<td>1.8</td>
<td>5.2</td>
</tr>
<tr>
<td>2013</td>
<td>6.2</td>
<td>2.4</td>
<td>1.6</td>
<td>5.6</td>
</tr>
<tr>
<td>2014</td>
<td>4.8</td>
<td>2.8</td>
<td>1.9</td>
<td>5.5</td>
</tr>
<tr>
<td>2015</td>
<td>6.6</td>
<td>3.2</td>
<td>2.2</td>
<td>6.2</td>
</tr>
<tr>
<td>2016</td>
<td>7</td>
<td>3</td>
<td>2.1</td>
<td>6.4</td>
</tr>
<tr>
<td>2017</td>
<td>7.4</td>
<td>3.5</td>
<td>2.3</td>
<td>6.8</td>
</tr>
</tbody>
</table>

11) The total number of people joining in the given forces together in the year 2013 is approximately what percentage of total number of people joining in the given forces together in the year 2015?
   a) 72 %  
   b) 56 %  
   c) 87 %  
   d) 95 %  
   e) 106 %

12) Find the difference between the total number of people joining in Army to that of Air force in all the given years together?
   a) 25500  
   b) 18600  
   c) 21700  
   d) 23200  
   e) None of these

13) Find the ratio between the total number of people joining in the given forces together in the year 2012 to that in the year 2015?
   a) 61: 85  
   b) 12: 19  
   c) 23: 27  
   d) 75: 91  
   e) None of these

14) Find the average number of people joining in BSF force in all the given years together?
   a) 6160  
   b) 5950  
   c) 6320  
   d) 6580  
   e) None of these

15) Total number of people joining in Navy in the year 2012, 2014 and 2016 together is approximately what percentage less than the total number of people joining in BSF in the year 2013 and 2015 together?
   a) 20 %  
   b) 45 %  
   c) 30 %  
   d) 60 %  
   e) 70 %

Directions : (16 – 20) Study the following information carefully and answer the given questions.

The following bar graph shows the selling price of an article (In Rs.) and the profit % earned by selling the article.
16) The cost price of article P is approximately what percentage more/less than the cost price of article U?
   a) 23 % less
   b) 14 % less
   c) 14 % more
   d) 30 % more
   e) 23 % more

17. Manoj sold an article S to Keerthi who again sold it at 25 % profit. Find the difference between the profits earned by Manoj to that of Keerthi?
   a) Rs. 7
   b) Rs. 18
   c) Rs. 24
   d) Rs. 32
   e) None of these

18) Rajesh marked an article Q, which is Rs. 60 above the cost price. How much discount percentage should be given on marked price to earn the given profit?
   a) 15 %
   b) 10 %
   c) 25 %
   d) 20 %
   e) None of these

19) Find the average cost price of the article P, Q, R and S together?
   a) Rs. 150
   b) Rs. 165
   c) Rs. 190
   d) Rs. 175
   e) None of these

20) The profit earned on selling the article P is what percentage of the profit earned on selling the article T?
   a) 350 %
   b) 225 %
   c) 375 %
   d) 250 %
   e) None of these

Directions (21 – 25) Study the following information carefully and answer the given questions.

The following line graph shows the ratio of import to export of a company in 6 different years.
21) If the import of a company in the year 2013 is 3.6 lakhs and the export of the company in the year 2015 is 2.4 lakhs, then find the ratio of export of the company in the year 2013 to that of import of the company in the year 2015?
   a) 15: 28  
   b) 19: 33  
   c) 23: 34  
   d) 52: 67  
   e) None of these

22) If the import of a company in the year 2012 and the export of the company in the year 2014 is same, which is equal to 4.5 lakhs, then the export of the company in the year 2012 is what percentage of import of the company in the year 2014?
   a) 79.85 %  
   b) 72.67 %  
   c) 85.45 %  
   d) 83.33 %  
   e) None of these

23) Find the export of the company in the year 2016, if the import of the company in the year 2016 is 6.6 lakhs?
   a) 3.8 lakhs  
   b) 4.4 lakhs  
   c) 3 lakhs  
   d) 2.6 lakhs  
   e) None of these

24) The export of the company in the year 2011 is 2.6 lakhs and the sum of the import of the company in the year 2011 and 2015 is 7.45 lakhs. Find the export of the company in the year 2015?
   a) 2.4 lakhs  
   b) 3 lakhs  
   c) 3.6 lakhs  
   d) 2.8 lakhs  
   e) None of these

25) If in the year 2014, the import of the company is increased by 20 % but the export of the company is decreased by 25 %, then find the new ratio between the import to export in the year 2014?
   a) 45: 19  
   b) 32: 25  
   c) 38: 17  
   d) 54: 23  
   e) None of these

Directions (26 – 30) Study the following information carefully and answer the given questions.

The following line graph shows the total number of voter id holders (In thousands) from Mumbai and Chennai in 6 different years.

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26) Find the difference between the total number of voter id holders from Mumbai in the year 2013 and 2015 together to that of total number of voter id holders from Chennai in the year 2012 and 2016 together?
   a) 15000  b) 18000  c) 12000  d) 10000  e) None of these

27) Find the ratio between the total number of voter id holders in the year 2015 to that of 2017 in both the cities together?
   a) 67: 78  b) 53: 59  c) 32: 17  d) 119: 123  e) None of these

28) The total number of voter id holders in the year 2013 in both the cities together is approximately what percentage of total number of voter id holders in the year 2016 in both the cities together?
   a) 120 %  b) 60 %  c) 75 %  d) 90 %  e) 105 %

29) Find the average number of voter id holders in the year 2012, 2013, 2014 and 2015 together in Mumbai?
   a) 132000  b) 116000  c) 128000  d) 139000  e) None of these

30) The total number of voter id holders in Chennai in the year 2012 and 2017 together is approximately what percentage more/less than the total number of voter id holders in the year 2014 in both the cities together?
   a) 6 % more  b) 15 % less  c) 6 % less  d) 20 % more  e) 15 % more

Directions :(31 – 35) Study the following information carefully and answer the given questions.

The following pie chart shows the total number of students in 6 different schools and the table shows the percentage of girls out of the total number of students in the respective schools.
31) Find the difference between the total number of boys in School P to that of total number of girls in School R?
   a) 1456   b) 1892   c) 1368   d) 1575   e) None of these

32) Find the average number of girls in School P, Q and S together?
   a) 5040   b) 5180   c) 4890   d) 4560   e) None of these

33) Find the ratio between the total number of students in School R to that of total number of boys in School T?
   a) 8: 7   b) 32: 29   c) 23: 21   d) 15: 14   e) None of these

34) The total number of girls in School U is approximately what percentage of total number of boys in School Q?
   a) 95 %   b) 110 %   c) 135 %   d) 70 %   e) 120 %

35) Find the central angle for School T?
Directions :(36 – 40) Study the following information carefully and answer the given questions.

The following table shows the total number of students studying in various departments in various engineering colleges in the year 2017 and the percentage of girls among them.

<table>
<thead>
<tr>
<th>Streams</th>
<th>College A</th>
<th>College B</th>
<th>College C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Total</td>
<td>% of girls</td>
<td>Total</td>
</tr>
<tr>
<td>IT</td>
<td>250</td>
<td>52 %</td>
<td>220</td>
</tr>
<tr>
<td>EEE</td>
<td>200</td>
<td>44 %</td>
<td>180</td>
</tr>
<tr>
<td>MECH</td>
<td>140</td>
<td>35 %</td>
<td>160</td>
</tr>
<tr>
<td>E&amp;I</td>
<td>180</td>
<td>55 %</td>
<td>175</td>
</tr>
<tr>
<td>Agriculture</td>
<td>225</td>
<td>48 %</td>
<td>140</td>
</tr>
</tbody>
</table>

36) Find the difference between the total number of boys in EEE and E&I department in college A to that of total number of girls in IT and Agriculture department in college C?
   a) 18  b) 29  c) 35  d) 44  e) None of these

37) Find the ratio between the total number of students in MECH department to that of E & I department in all the given colleges together?
   a) 15: 32  b) 27: 49  c) 18: 23  d) 53: 69  e) None of these

38) Total number of girls in IT department in college B is approximately what percentage of total number of boys in MECH department in college C?
   a) 115 %  b) 130 %  c) 90 %  d) 145 %  e) 75 %

39) Find the average number of girls in IT, MECH and Agriculture department in college B?
   a) 124  b) 180  c) 152  d) 78  e) None of these

40) Total students in college A is approximately what percentage more/less than the total students in college C in all the given departments together?
   a) 15 % less  b) 4 % more  c) 15 % more  d) 22 % less  e) 4 % less

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

The following bar graph shows the sales of cars of 2 different companies in 5 different years.

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41) Total cars sold by the company A in the year 2012 and 2016 together is approximately what percentage of total cars sold by both the companies in the year 2013?
   a) 95 %  b) 75 %  c) 105 %  d) 120 %  e) 130 %

42) Find the ratio between the total cars sold by both the companies in the year 2012 to that of the year 2015?
   a) 65: 73  b) 83: 87  c) 131: 152  d) 51: 59  e) None of these

43) Find the average number of cars sold by the company A in all the given years together?
   a) 1340  b) 1420  c) 1160  d) 1280  e) None of these

44) If the total cars sold by the company A and B in the year 2017 is increased by 20 % and 25 % respectively while comparing with the previous year, then find difference between the total number of cars sold by the company A to that of B in the year 2017?
   a) 420  b) 360  c) 280  d) 540  e) None of these

45) Total cars sold by company B in the year 2014 and 2016 together is approximately what percentage more/less than the total cars sold by the company A in the year 2013 and 2015 together?
   a) 15 % less  b) 15 % more  c) 6 % more  d) 24 % less  e) 6 % less

Directions (46 – 50): Study the following information carefully and answer the given questions

The following table shows the total number of employees working in 6 different companies in 5 different years.
<table>
<thead>
<tr>
<th></th>
<th>P</th>
<th>Q</th>
<th>R</th>
<th>S</th>
<th>T</th>
<th>U</th>
</tr>
</thead>
<tbody>
<tr>
<td>2012</td>
<td>1200</td>
<td>1450</td>
<td>1050</td>
<td>950</td>
<td>1100</td>
<td>1250</td>
</tr>
<tr>
<td>2013</td>
<td>1350</td>
<td>1300</td>
<td>1100</td>
<td>1150</td>
<td>900</td>
<td>1300</td>
</tr>
<tr>
<td>2014</td>
<td>1100</td>
<td>1250</td>
<td>1200</td>
<td>1300</td>
<td>1050</td>
<td>1600</td>
</tr>
<tr>
<td>2015</td>
<td>1150</td>
<td>1500</td>
<td>1400</td>
<td>1350</td>
<td>1200</td>
<td>1500</td>
</tr>
<tr>
<td>2016</td>
<td>1500</td>
<td>1650</td>
<td>1200</td>
<td>1550</td>
<td>1450</td>
<td>1750</td>
</tr>
</tbody>
</table>

46) Find the difference between the total number of employees working in all the given companies in the year 2012 to that in the year 2016?
   a) 2800  b) 3200  c) 2100  d) 2550  e) None of these

47) Find the ratio between the total number of employees of company P to that of company R in all the given years together?
   a) 126: 119  b) 75: 62  c) 33: 17  d) 254: 219  e) None of these

48) Total number of employees in company Q and S together in the year 2012 is approximately what percentage of total number of employees in company R and U together in the year 2015?
   a) 56 %  b) 83 %  c) 67 %  d) 74 %  e) 95 %

49) Find the average number of employees in the year 2014 in all the given companies together?
   a) 1300  b) 1050  c) 1150  d) 1250  e) None of these

50) Total number of employees of company Q in all the given years together is approximately what percentage less than the total number of employees of company U in all the given years together?
   a) 3 % less  b) 15 % less  c) 22 % more  d) 8 % less  e) 30 % more

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Solution:
1. Answer: c)
Explanation:
The number of male engineering professionals in the year 2015
\[ = 680 \times \frac{40}{100} \]
\[ = 272 \]
The number of female Law professionals in the year 2013
\[ = 450 \times \frac{46}{100} \]
\[ = 207 \]
Required difference = 272 - 207 = 65

2. Answer: d)
Explanation:
The number of male medical professionals in the year 2014
\[ = 160 \times \frac{55}{100} \]
\[ = 88 \]
The number of female engineering professional in the year 2013
\[ = 650 \times \frac{48}{100} \]
\[ = 312 \]
Required ratio = 88 : 312
\[ = 11 : 39 \]

3. Answer: c)
Explanation:
Total number of engineering professionals in all the given years together
\[ = 650 + 720 + 680 + 540 + 660 = 3250 \]
Total number of medical professionals in all the given years together
\[ = 180 + 160 + 150 + 200 + 120 = 810 \]
Required difference = 3250 - 810 = 2440

4. Answer: a)
Explanation:
The total number of male law professionals in the year 2013, 2015 and 2017 together
\[ = 450 \times \frac{54}{100} + 620 \times \frac{45}{100} + 700 \times \frac{60}{100} \]
\[ = 243 + 279 + 420 = 942 \]
Required average = 942/3 = 314

5. Answer: b)
Explanation:
Number of medical professionals in the year 2014
\[ = 160 \]
The number of engineering male professionals in the year 2016
\[ = 540 \times \frac{60}{100} \]
\[ = 324 \]
Required % = 160/324 * 100 = 49%

6. Answer: b)
Explanation:
Total male population of city P
=> 2000000*(16/100)*(5/8) = 200000
Total female population of city R
=> 2000000*(22/100)*(5/11) = 200000
Required % = (200000/200000)*100 = 100 %

7. Answer: c)
Explanation:
The total male population of city Q
=> 2000000*(18/100)*(4/9) = 160000
The total female population of city S
=> 2000000*(15/100)*(1/3) = 100000
Required difference = 160000 – 100000 = 60000

8. Answer: a)
Explanation:
The total female population in city P, Q and S together
=> [2000000*(16/100)*(3/8)] + [2000000*(18/100)*(5/9)] + [2000000*(15/100)*(1/3)]
=> 120000 + 200000 + 100000 = 420000
Required average = 420000/3 = 140000

9. Answer: d)
Explanation:
The total population in city T
=> 2000000*(19/100) = 380000
The total male population in city U
=> 2000000*(10/100)*(9/20) = 90000
Required ratio = 380000: 90000 = 38: 9

10. Answer: b)
Explanation:
The central angle of city Q
=> (18/100)*360 = 64.80

11. Answer: c)
Explanation:
The total number of people joining in the given forces together in the year 2013
=> (6.2 + 2.4 + 1.6 + 5.6)*1000 = 15.8 thousand
=> 15800
The total number of people joining in the given forces together in the year 2015
12. Answer: a)  
Explanation:  
The total number of people joining in Army in all the given years together  
\[= (6.6 \times 3.2 + 2.2 + 6.2) \times 1000 = 18.2 \text{ thousand} = 18200\]  
Required % = \[
\frac{15800}{18200} \times 100 = 87\%
\]

13. Answer: d)  
Explanation:  
The total number of people joining in the given forces together in the year 2012  
\[= 5400 + 2600 + 1800 + 5200 = 15000\]  
The total number of people joining in the given forces together in the year 2015  
\[= 6600 + 3200 + 2200 + 6200 = 18200\]  
Required ratio = 15000: 18200 = 75: 91

14. Answer: b)  
Explanation:  
The total number of people joining in BSF force in all the given years together  
\[= (5.2 + 5.6 + 5.5 + 6.2 + 6.4 + 6.8) \times 1000 = 35.7 \text{ thousand} = 35700\]  
Required average = 35700/6 = 5950

15. Answer: c)  
Explanation:  
Total number of people joining in Navy in the year 2012, 2014 and 2016 together  
\[= 2600 + 2800 + 3000 = 8400\]  
Total number of people joining in BSF in the year 2013 and 2015 together  
\[= 5600 + 6200 = 11800\]  
Required % = \[
\frac{(11800 – 8400) \times 100}{11800} = 28.81\% \approx 30\%
\]

16. Answer: c)  
Explanation:  
The cost price of article P  
\[= 325 \times \frac{100}{130} = \text{Rs. 250}\]  
The cost price of article U  
\[= 275 \times \frac{100}{125} = \text{Rs. 220}\]  
Required % = \[
\frac{(250 – 220) \times 100}{220} = 14\% \text{ more}
\]

17. Answer: a)  
Explanation:  
Manoj’s selling price = Rs. 196  
Manoj’s cost price = 196 \times \frac{100}{140} = \text{Rs. 140}
Profit earned by Manoj = 196 – 140 = Rs. 56
Keerthi’s cost price = Rs. 196
Keerthi’s selling price = 196*(125/100) = Rs. 245
Profit earned by Keerthi = 245 – 196 = Rs. 49
Required difference = 56 – 49 = Rs. 7

18. Answer: d)
Explanation:
Cost price of article Q = 144*(100/120) = Rs. 120
Article Q’s marked price = C.P + 60 = 120 + 60 = Rs. 180
Discount = Marked price – Selling price = 180 – 144 = Rs. 36
Discount % = (Discount/MP)*100 = (36/180)*100 = 20 %

19. Answer: b)
Explanation:
Cost price of article P = 325*(100/130) = Rs. 250
Cost price of article Q = 144*(100/120) = Rs. 120
Cost price of article R = 192*(100/128) = Rs. 150
Cost price of article S = 196*(100/140) = Rs. 140
The average cost price of the article P, Q, R and S together
= > (250 + 120 + 150 + 140)/4
= > 660/4 = Rs. 165

20. Answer: c)
Explanation:
The profit earned on selling the article P
= > 325*(100/130)*(30/100) = Rs. 75
The profit earned on selling the article T
= > 145*(100/116)*(16/100) = Rs. 20
Required % = (75/20)*100 = 375 %

21. Answer: a)
Explanation:
The ratio of import to export in the year 2013 = 1.6 = 16/10 = 8/5 = 8: 5
The import of the company in the year 2013 = 3.6 lakhs
8’s = 3.6
1’s = 0.45
The export of the company in the year 2013 = 5’s = 2.25 lakhs
The ratio of import to export in the year 2015 = 1.75 = 175/100 = 7/4 = 7: 4
The export of the company in the year 2015 = 2.4 lakhs
4’s = 2.4
1’s = 0.6
The import of the company in the year 2015 = 7’s = 4.2 lakhs
Required ratio = 2.25: 4.2 = 225: 420 = 15: 28

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22. Answer: d)
Explanation:
The ratio of import to export in the year 2012 = 1.5 = 15/10 = 3/2 = 3: 2
The import of the company in the year 2012 = 4.5 lakhs
3’s = 4.5
1’s = 1.5
The export of the company in the year 2012 = 2’s = 3 lakhs
The ratio of import to export in the year 2014 = 0.8 = 8/10 = 4/5 = 4: 5
The export of the company in the year 2014 = 4.5 lakhs
5’s = 4.5
1’s = 0.9
The import of the company in the year 2014 = 4’s = 3.6 lakhs
Required % = (3/3.6)*100 = 83.33 %

23. Answer: c)
Explanation:
The ratio of import to export in the year 2016 = 2.2 = 22/10 = 11/5 = 11: 5
The import of the company in the year 2016 = 6.6 lakhs
11’s = 6.6
1’s = 0.6
The export of the company in the year 2016 = 5’s = 3 lakhs

24. Answer: a)
Explanation:
The ratio of import to export in the year 2011 = 1.25 = 125/100 = 5/4 = 5: 4
The export of the company in the year 2011 = 2.6 lakhs
4’s = 2.6
1’s = 0.65
The import of the company in the year 2011 = 5’s = 3.25 lakhs
The sum of the import of the company in the year 2011 and 2015 = 7.45 lakhs
The import of the company in the year 2015 = 7.45 – 3.25 = 4.2 lakhs
The ratio of import to export in the year 2015 = 1.75 = 175/100 = 7/4 = 7: 4
7’s = 4.2
1’s = 0.6
The export of the company in the year 2015 = 4’s = 2.4 lakhs

25. Answer: b)
Explanation:
The ratio of import to export in the year 2014 = 0.8 = 8/10
The import of the company is increased by 20 % but the export of the company is decreased by 25 %. According to the question,
= > [8*(120/100)] / [10*(75/100)]
26. Answer: c)  
Explanation:  
The total number of voter id holders from Mumbai in the year 2013 and 2015 together  
= > 132000 + 136000 = 268000  
The total number of voter id holders from Chennai in the year 2012 and 2016 together  
= > 116000 + 140000 = 256000  
Required difference = 268000 – 256000 = 12000

27. Answer: a)  
Explanation:  
The total number of voter id holders in the year 2015 in both the cities together  
= > 136000 + 132000 = 268000  
The total number of voter id holders in the year 2017 in both the cities together  
= > 152000 + 160000 = 312000  
Required ratio = 268000: 312000 = 67: 78

28. Answer: d)  
Explanation:  
The total number of voter id holders in the year 2013 in both the cities together  
= > 132000 + 124000 = 256000  
The total number of voter id holders in the year 2016 in both the cities together  
= > 148000 + 140000 = 288000  
Required % = (256000/288000)*100 = 88.88 % = 90 %

29. Answer: c)  
Explanation:  
The total number of voter id holders in the year 2012, 2013, 2014 and 2015 together in Mumbai  
= > 124000 + 132000 + 120000 + 136000 = 512000  
Required average = 512000/4 = 128000

30. Answer: a)  
Explanation:  
The total number of voter id holders in Chennai in the year 2012 and 2017 together  
= > 116000 + 160000 = 276000  
The total number of voter id holders in the year 2014 in both the cities together  
= > 120000 + 140000 = 260000  
Required % = [(276000 – 260000)/260000]*100 = 6 % more

31. Answer: c)  
Explanation:  

<table>
<thead>
<tr>
<th>Schools</th>
<th>Total students</th>
<th>Total girls</th>
<th>Total boys</th>
</tr>
</thead>
</table>

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The total number of boys in School P
= > 60000*(15/100)*(52/100) = 4680
The total number of girls in School R
= > 60000*(12/100)*(46/100) = 3312
Required difference = 4680 – 3312 = 1368

32. Answer: a)
Explanation:
The total number of girls in School P, Q and S together
= > 60000*(15/100)*(48/100) + 60000*(18/100)*(52/100) + 60000*(16/100)*(54/100)
= > 4320 + 5616 + 5184 = 15120
Required average = 15120/3 = 5040

33. Answer: d)
Explanation:
The total number of students in School R
= > 60000*(12/100) = 7200
The total number of boys in School T
= > 60000*(20/100)*(56/100) = 6720
Required ratio = 7200: 6720 = 15: 14

34. Answer: b)
Explanation:
The total number of girls in School U
= > 60000*(19/100)*(50/100) = 5700
The total number of boys in School Q
= > 60000*(18/100)*(48/100) = 5184
Required % = (5700/5184)*100 = 110 %

35. Answer: c)
Explanation:
The central angle for School T
= > (20/100)*360 = 720

36. Answer: a)
Explanation:
The total number of boys in EEE and E&I department in college A
\[= 200 \times (56/100) + 180 \times (45/100)\]
\[= 112 + 81 = 193\]
The total number of girls in IT and Agriculture department in college C
\[= 190 \times (40/100) + 225 \times (44/100)\]
\[= 76 + 99 = 175\]
Required difference = 193 – 175 = 18

37. Answer: c)
Explanation:
The total number of students MECH department in all the given colleges together
\[= 140 + 160 + 150 = 450\]
The total number of students E&I department in all the given colleges together
\[= 180 + 175 + 220 = 575\]
Required ratio = 450 : 575 = 18 : 23

38. Answer: b)
Explanation:
Total number of girls in IT department in college B
\[= 220 \times (55/100) = 121\]
Total number of boys in MECH department in college C
\[= 150 \times (62/100) = 93\]
Required % = \((121/93) \times 100 = 130\ %\)

39. Answer: d)
Explanation:
The total number of girls in IT, MECH and Agriculture department in college B
\[= 220 \times (55/100) + 160 \times (40/100) + 140 \times (35/100)\]
\[= 121 + 64 + 49 = 234\]
Required average = \(234/3 = 78\)

40. Answer: b)
Explanation:
Total students in college A in all the given departments together
\[= 250 + 200 + 140 + 180 + 225 = 995\]
Total students in college C in all the given departments together
\[= 190 + 175 + 150 + 220 + 225 = 960\]
Required % = \([(995 – 960)/960]\times 100 = 4 \ %\ more\)

41. Answer: a)
Explanation:
Total cars sold by the company A in the year 2012 and 2016 together
\[= 1240 + 1200 = 2440\]
Total cars sold by both the companies in the year 2013
= > 1160 + 1420 = 2580
Required % = (2440/2580)*100 = 95%

42. Answer: c)
Explanation:
The total cars sold by both the companies in the year 2012
= > 1240 + 1380 = 2620
The total cars sold by both the companies in the year 2015
= > 1480 + 1560 = 3040
Required ratio = 2620: 3040 = 131: 152

43. Answer: d)
Explanation:
The total number of cars sold by the company A in all the given years together
= > 1240 + 1160 + 1320 + 1480 + 1200 = 6400
Required average = 6400/5 = 1280

44. Answer: b)
Explanation:
The total cars sold by the company A in the year 2017
= > 1200*(120/100) = 1440
The total cars sold by the company B in the year 2017
= > 1440*(125/100) = 1800
Required difference = 1800 – 1440 = 360

45. Answer: c)
Explanation:
Total cars sold by company B in the year 2014 and 2016 together
= > 1360 + 1440 = 2800
Total cars sold by company A in the year 2013 and 2015 together
= > 1160 + 1480 = 2640
Required % = [(2800 – 2640)/2640]*100 = 6 % more

46. Answer: c)
Explanation:
The total number of employees working in all the given companies in the year 2012
= > 1200 + 1450 + 1050 + 950 + 1100 + 1250 = 7000
The total number of employees working in all the given companies in the year 2016
= > 1500 + 1650 + 1200 + 1550 + 1450 + 1750 = 9100
Required difference = 9100 – 7000 = 2100

47. Answer: a)
Explanation:
The total number of employees of company P in all the given years together
= 1200 + 1350 + 1100 + 1150 + 1500 = 6300
The total number of employees of company R in all the given years together
= 1050 + 1100 + 1200 + 1400 + 1200 = 5950
Required ratio = 6300: 5950 = 126: 119

48. Answer: b)
Explanation:
Total number of employees in company Q and S together in the year 2012
= 1450 + 950 = 2400
Total number of employees in company R and U together in the year 2015
= 1400 + 1500 = 2900
Required % = (2400/2900)*100 = 83 %

49. Answer: d)
Explanation:
The total number of employees in the year 2014 in all the given companies together
= 1100 + 1250 + 1200 + 1300 + 1050 + 1600 = 7500
Required average = 7500/6 = 1250

50. Answer: a)
Explanation:
Total number of employees of company Q in all the given years together
= 1450 + 1300 + 1250 + 1500 + 1650 = 7150
Total number of employees of company U in all the given years together
= 1250 + 1300 + 1600 + 1500 + 1750 = 7400
Required % = [(7400 – 7150)/7400]*100 = 3 % less

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