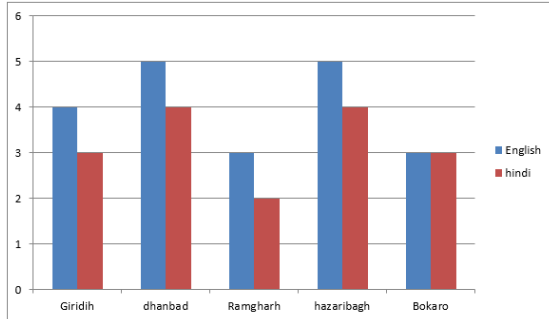


RBI Assistant Main 2020

Top 50 DI Questions

Directions (1 – 5) : Study the following bar graph carefully to answer the questions.

Total sale of English and Hindi Newspaper in Five Different city
(NUMBER IN THUOSANDS)



1. What is the difference between the total sale of English newspaper and the total sale of Hindi Newspaper in all the city together?

- A. 5000 B. 4000
C. 3000 D. 6000
E. None of these

2. The sale of English Newspapers in city Giridih is approximately what percent of the total sale of English Newspapers in all the city together?

- A. 25 B. 20
C. 35 D. 15
E. None of these

3. What is the ratio of the sale of Hindi Newspaper in city Ramgarh to the sale of Hindi Newspapers in city Bokaro?

- A. 3:4 B. 4:3
C. 3:2 D. 2:3
E. None of these

4. The sale of English Newspapers in city Dhanbad & Bokaro together is what percent of the sale of English Newspapers in city Giridih, Ramgarh and Hazaribagh together?

- A. 86.25 B. 66.67
C. 33.33 D. 75
E. None of these

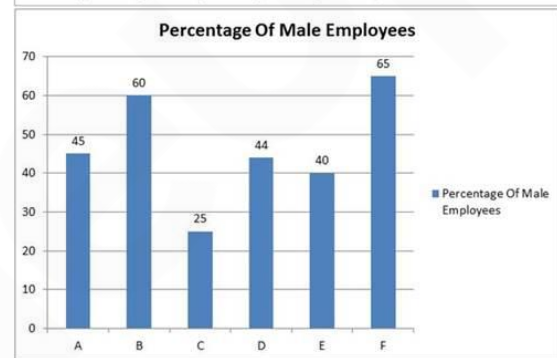
5. What is the average sale of Hindi Newspapers in all the city together?

- A. 3350 B. 3200
C. 3150 D. 4000

E. None of these

Directions (6 – 10) : Study the following Bar Graph and answer the questions given below.

Total number of Employees in Different Companies and percentage of Male Employees in those companies.



6. What is the respective ratio of the number of male employees of Company A and the number of female employees of Company E?

- A. 115:104 B. 111:104
C. 104:111 D. 104:115
E. None of these

7. What is total number of male employees of company C and female employees of company D and E together?

- A. 1420 B. 1240
C. 1140 D. 1000
E. None of these

8. The total number of female employees of company B is approximately what percent of the total number of employees of company D?

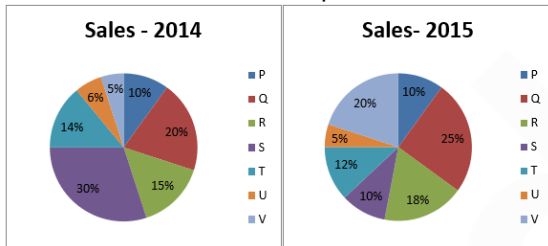
- A. 73.33% B. 37.34%
C. 47.34% D. 65.3%
E. None of these

9. What is the total number of employees in all the companies together?
 A. 5165 B. 5565
 C. 5600 D. 5615
 E. None of these

10. What is the average number of female employees in all the companies together (approximately)?
 A. 930 B. 625
 C. 492 D. 110
 E. None of these

Direction (11 – 15) : Below Pie charts gives the information of company - Pk Diamonds Ltd. for the sales of two years 2014 & 2015 . Based on these charts answer the questions that follows-

Total Sales In 2014 – \$ 12000
Total sales in 2015 - \$ 18000



11. What is the percentage increase in the sales of the company in the period 2014 to 2015?
 A. 25% B. 50%
 C. 14% D. 78%
 E. 70%

12. Which product has shown the highest increase in the sales from 2014 to 2015 ?
 A. P B. Q
 C. R D. V
 E. T

13. What is the difference between the sales of Q in 2015 to 2014?
 A. \$ 700 B. \$2100
 C. \$2800 D. \$900
 E. \$1000

14. For how many products did the sales increase by more than 40% from 2014 to 2015?
 A. 3 B. 4

- C. 5 D. 6
 E. None of these

15. How much is the total sales for S for both years 2014 & 2015?
 A. \$ 5400 B. \$ 5000
 C. \$ 4200 D. \$ 3000
 E. \$ 4800

Direction (16 – 20) : Study the following table carefully to answer the question that follow :

Number of Orders cancelled by five different e- Commerce companies in six different years

e-Com \ Years	P	Q	R	S	T
2011	240	405	305	365	640
2012	420	600	470	446	258
2013	600	680	546	430	610
2014	160	208	708	550	586
2015	140	640	656	250	654
2016	290	363	880	195	483

16. What was the difference between the highest number of orders cancelled by Company Q and the lowest number of order cancelled by Company-T out of all the six years?
 A. 325 B. 422
 C. 596 D. 416
 E. None of these

17. What was the approximate percentage increase in number of order cancelled by Company-S in the year 2014 as compared to previous year?
 A. 57 B. 44
 C. 125 D. 28
 E. 95

18. What was the average number of order cancelled by the Companies P,R, S and T in the year 2014?
 A. 405 B. 501
 C. 551.5 D. 488
 E. None of these

19. In 2016, 40% of orders are cancelled by Company-R due to bad weather and by packaging fault. How many orders are cancelled by Company-R due to other faults?
 A. 548 B. 468

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Marketing department and the number of men working in the IT department?

- A. 3 : 5
- B. 4 : 5
- C. 3 : 4
- D. 6 : 7
- E. None of these

28. The number of men working in the IT department of the organization forms what percent of the total number of employees working in that department?

- A. 80%
- B. 90 %
- C. 75 %
- D. 65 %
- E. None of these

29. The number of women working in the Account department of the organization forms what percent of the total number of employees in the organization from all departments together?

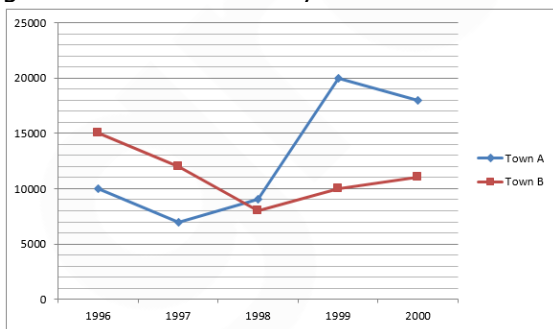
- A. 6%
- B. 8%
- C. 7%
- D. 9%
- E. None of these

30. What is the total number of employee working together in production and IT department in organization?

- A. 1800
- B. 1900
- C. 1600
- D. 1200
- E. None of these

Direction (31 – 35) : Read the following line graph and answer the following questions given below it.

There are two towns Town A and Town B. The population of these two towns is given across different years.



31. If the population of town A is increased by 20% in year 2001 with respect to year 2000 and the population of town B is decreased by 10% in years 2001 with respect to year 2000, then find

the total population of town A and town B together in year 2001.

- A. 49000
- B. 31500
- C. 13500
- D. 26400
- E. 19000

32. Find the ratio of the population of Town A in the years 1996, 1998 and 2000 together to the total population of Town B in the years 1997 and 1999 together.

- A. $\frac{59}{27}$
- B. $\frac{12}{19}$
- C. $\frac{37}{22}$
- D. $\frac{22}{37}$
- E. $\frac{27}{59}$

33. The total population of both towns in the year 2000 is what percent more/less than the total population of both towns in the year 1998?

- A. 56.40%
- B. 18.5%
- C. 64%
- D. 70.58%
- E. None of these

34. Find the difference between the average population of town A from 1996 to 2000 and the average population of town B from 1996 to 2000.

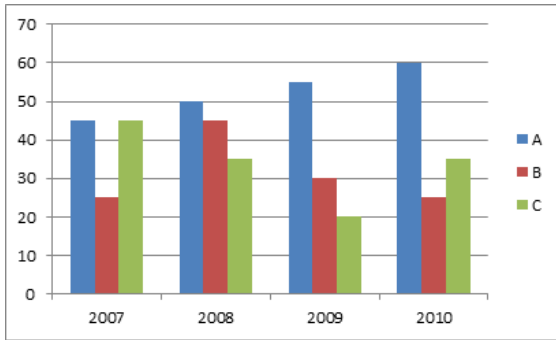
- A. 1600
- B. 1550
- C. 900
- D. 1200
- E. None of these

35. Find the total population of both towns from the years 1997 to 1999.

- A. 55000
- B. 33000
- C. 28000
- D. 66000
- E. None of these

Directions (36 – 40) : Study the following graph carefully and answer the questions given below.

The following graph gives the profit percentage of three companies in different years.

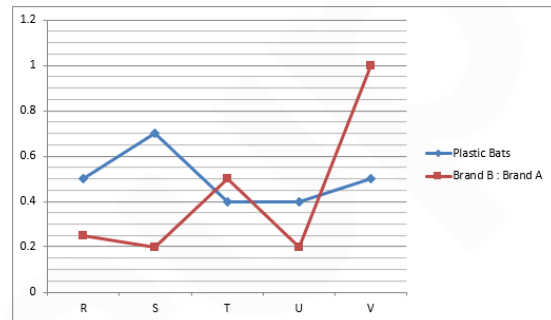


$$\text{Profit} = \text{Income} - \text{expenditure}$$

$$\frac{\text{Profit}}{\text{Income}} \times 100 = \frac{\text{income} - \text{expenditure}}{\text{expenditure}} \times 100$$

36. if the income of company A in 2008 is equal to expenditure of company B in 2007, find the ratio of profit of company A in 2008 to company B in 2007.
- A. 4:3 B. 4:5
 C. 3:5 D. 5:4
 E. cannot be determined
37. If the income of company B and C was equal in 2009, then what was the ratio of their expenditures?
- A. 12 : 13 B. 13 : 12
 C. 3 : 2 D. 2 : 3
 E. None of these
38. Which company earned the minimum percentage profit for maximum number of years during the given period?
- A. A B. B
 C. C D. Both B and C
 E. Both A and C
39. If company A and C has equal profit in 2010, then Income earned by company C is (approx.) what percent of the expenditures incurred by company A?
- A. 230 B. 260
 C. 45 D. 180
 E. 80
40. If the expenditure of company A keep on increasing every year, then in which year it has maximum income?
- A. 2007 B. 2008
 C. 2009 D. 2010
 E. None of these

Direction (41 – 45) : The line graph given below shows the information about bats manufactured by 6 different companies. Each company manufactures only plastic & wooden bats. It further labels wooden bats as brand A & brand B. Each company manufactures 550000 bats & line graph shows Plastic bats manufactured as a decimal equivalent ratio of total bats manufactured by each company & the decimal equivalent ratio of wooden bats labeled Brand A & Brand B.



41. What is the ratio of total wooden bats of brand B manufactured by company U to the total wooden bats manufactured by company R & V?
- A. 1:10 B. 1:15
 C. 2:5 D. 3:8
 E. 5:11
42. If 'P' is the sum of wooden bats of brand B manufactured by company S & wooden bats of brand A manufactured by company V & 'Q' is the difference of wooden bats of brand B & brand A manufactured by Company U, then find the difference of Q - P?
- A. 10200 B. 55000
 C. 54000 D. 109000
 E. 75000
43. How many total wooden bats of brand A are manufactured by all the companies?
- A. 950000 B. 100000
 C. 990000 D. 850000
 E. 1200000
44. What is the total number of wooden bats of brand A manufactured by company T?
- A. 275000 B. 137500

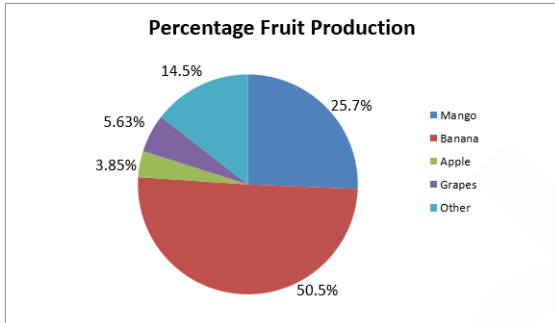
- C. 55000
- E. 385000
- D. 220000

45. Find X-Y, if X = Average of plastic bats manufactured by Company V & U and Y = Wooden bats of brand A manufactured by company R.

- A. 32000
- C. 22400
- E. 27500
- B. 28000
- D. 18500

Direction (46 – 50) : Read the following information carefully and answer the questions that follow:

The amount of fruits produced in country C was 50000 kilos. The contribution of various fruits to this number has been highlighted in the given pie chart:



46. What is the total weight of Apples and Grapes produced in country C?
- A. 1925 kilos
 - B. 2815 kilos

- C. 4740 kilos
- E. None of these
- D. 890 kilos

47. If the cost of Mangoes is Rs. 480 per kilo, then what was the total money earned by selling all of the mangoes?

- A. Rs. 1285000
- C. Rs. 5000000
- E. None of these
- B. Rs. 6168000
- D. Rs. 4876000

48. The Bananas were sold at Rs. 36 per kilo, while the Grapes were sold at Rs. 100 per kilo. The selling price of the all bananas is what percentage more than the selling price of all grapes? (Approximate your answer)

- A. 223%
- C. 340%
- E. None of these
- B. 150%
- D. 480%

49. What is the average weight of Apples and Mangoes produced?

- A. 1925 kilos
- C. 10025.5 kilos
- E. None of these
- B. 12850 kilos
- D. 7387.5 kilos

50. What is the ratio of the produced weight of Grapes to that of other fruits produced?

- A. 1563 : 2450
- C. 167 : 1200
- E. 563 : 1450
- B. 453 : 747
- D. 447 : 1342

###ANSWERS###

1. Ans. B.
 Required difference
 $= (4000+5000+3000+5000+3000) - (3000+4000+2000+4000+3000)$
 $= 20000 - 16000 = 4000$

2. Ans. B.
 Required % $= (4/4+5+3+5+3) * 100$
 $= (4/20) * 100$
 $= 20\%$

3. Ans. D.
 Required ratio = 2000:3000
 $= 2:3$

4. Ans. B.
 Required % $= \{(5+3)/(4+3+5)\} * 100$
 $= (8/12) * 100$
 $= 66.67\%$

5. Ans. B.
 Required average $= (3+4+2+4+3)/5$
 $= (16/5) * 1000$ (unit = 1000)
 $= 3200$

6. Ans. B.
Ans. B
 Required ratio $= [(45*925)/100 : (60*650)/100] = 111:104$
Traditional Approach :
 No of male employees in company A = 45% of 925 = 416.25
 No of Female Employees in company E = 60% of 650 = 390
 Required ratio = 416.25 : 390
 111 : 104

7. Ans. B.
Ans. B
 Required sum = 25% of 880 + 56% of 1125 + 60% of 650
 $= 220 + 630 + 390 = 1240$

8. Ans. B.
Ans. B
 Number of female employees of company B = 40% of 1050 = 420
 Required Percentage $= (420/1125) * 100$
 $= 37.34\%$

9. Ans. D.
Ans. D
 Required sum = 925 + 1050 + 880 + 1125 + 650 + 985 = 5615

10. Ans. C.
Ans. C
 Total number of female employees = $925 * 55\% + 1050 * 40\% + 880 * 75\% + 1125 * 56\% + 650 * 60\% + 985 * 35\%$

$508.75 + 420 + 660 + 630 + 390 + 344.75 = 2953.50$
 Required average = $2953.50/6 = 492$ approx.

11. Ans. B.
 As given Sales in 2014 = 12000
 Sales in 2015 = 18000
 So, increase is $\rightarrow 6000/12000 = 0.5 * 100 = 50\%$

12. Ans. D.
 AS from 2014 to 2015 there is increase of 50 % So,
 100 \rightarrow 150
 V in 2014 = 5% of 12000 = 600
 V in 2015 = 20% of 18000 = 3600
 so % increase = $3600 \times 100 / 600 = 600\%$
 so V has the highest increase of 600%

13. Ans. B.
 IN 2014 the number of products of Q is $\rightarrow 20 * 12000 / 100 = 2400$
 In 2015 $\rightarrow 25 * 18000 / 100 = 4500$
 So, difference is $4500 - 2400 = 2100$

14. Ans. B.
 AS calculated the iNcrease in sales from 2014 to 2015 is 50%
 So, 100 \rightarrow 150
 Now calculate for P, q ,r
 The sales I ncrease by 40 % for these products --.
 P, Q,R,V

15. Ans. A.
 For year 2014 $\rightarrow 30 * 12000 / 100 = \3600
 For year 2015 $\rightarrow 10 * 18000 / 100 = 1800$
 So, total sales of S is $\rightarrow 3600 + 1800 = 5400$

16. Ans. B.
 Highest number of order cancelled by Company - Q = 680

Lowest number of order cancelled by Company - T = 258
 Required difference = $680 - 258 = 422$

17. Ans. D.
 Number of order cancelled by Company- S in the year 2013 = 430
 Number of order cancelled by Company - S in the year 2014 = 550

$$\frac{550-430}{430} \times 100 = 28$$

 Required percentage = 28 (approx)

18. Ans. B.

Required average = $(160 + 708 + 550 + 586) \div 4$

= $2004 \div 4 = 501$

19. Ans. D.

Total number of Order are cancelled by Company R in 2016 = 880

Order cancelled by Company R due to packaging fault = 60%

Required number = 60% of 880

= 528

20. Ans. C.

Cancelled Order by Company's P and R in 2013 = $600 + 546 = 1146$

Cancelled order by Company - S in 2011 = 365

Required percentage =

$$\frac{600+546}{365} \times 100 = 314 \text{ (approx)}$$

21. Ans. B.

Village	Total people	Male	Female	Children
A	280	140	90	50
B	300	160	80	60
C	340	100	160	80
D	260	120	80	60
E	400	220	120	60

From village A,

Let M represents male, F represent female and C represents children. So,

$$M+C=190$$

$$F+C=140$$

$$M+F=230$$

$$2(M+F+C)=190+140+230=560$$

$$M+F+C=560/2=280$$

$$\text{Total number of males}=(M+F+C)-(F+C) \\ =280-140=140$$

$$\text{Total number of females}=(M+F+C)-(M+C)$$

$$=280-190=90$$

$$\text{Total number of children}=(M+F+C)-(M+F)$$

$$=280-230=50$$

From village E,

$$M+C=280$$

$$F+C=180$$

$$M+F=340$$

$$2(M+F+C)=280+180+340=800$$

$$M+F+C=800/2=400$$

$$\text{Total number of females}=(M+F+C)-(M+C)$$

$$=400-280=120$$

Difference=Male from village A-female from village E

$$=140-120=20$$

Hence, option B is the correct answer.

22. Ans. A.

Village	Total people	Male	Female	Children
A	280	140	90	50
B	300	160	80	60
C	340	100	160	80
D	260	120	80	60
E	400	220	120	60

Let M represents male, F represents female and C represents children.

From village B,

$$M+C=220$$

$$F+C=140$$

$$M+F=240$$

$$2(M+F+C)=220+140+240=600$$

$$M+F+C=600/2=300$$

$$\text{Total number of male}=(M+F+C)-(F+C) \\ =300-140=160$$

From village D,

$$M+C=180$$

$$F+C=140$$

$$M+F=200$$

$$2(M+F+C)=180+140+200=520$$

$$M+F+C=520/2=260$$

$$\text{Total number of male}=(M+F+C)-(F+C) \\ =260-140=120$$

$$\text{Total male B+D}=160+120=280$$

$$\text{Ratio of married to unmarried}=9:5$$

$$\text{So total unmarried male}=280 \times 5/14=100$$

Hence, option A is the correct answer.

23. Ans. D.

Village	Total people	Male	Female	Children
A	280	140	90	50
B	300	160	80	60
C	340	100	160	80
D	260	120	80	60
E	400	220	120	60

Let M represents male, F represents female and C represents children.

From village C in 2017,

$$M+C=180$$

$$F+C=240$$

$$M+F=260$$

$$2(M+F+C)=180+240+260=680$$

$$M+F+C=680/2=340$$

$$\text{Total number of males}=(M+F+C)-(F+C) \\ =340-240=100$$

$$\text{Total number of females}=(M+F+C)-(M+C)$$

$$=340-180=160$$

$$\text{Total number of children}=(M+F+C)-(M+F)$$

$$=340-260=80$$

In 2018,

The number of males,
 $100 \times 130 / 100 = 130$
 The number of females,
 $160 \times 110 / 100 = 176$
 Total people increasesd by,
 $340 \times 120 / 100 = 408$
 Total number of children = $408 - (130 + 176)$
 $= 408 - 306 = 102$
 24. Ans. B.

Village	Total people	Male	Female	Children
A	280	140	90	50
B	300	160	80	60
C	340	100	160	80
D	260	120	80	60
E	400	220	120	60

Total children from village A = 50
 Total children from village B = 60
 Total female from village D = 80
 So ratio = $A + B / D$
 $= 50 + 60 / 80 = 11 : 8$
 Hence, option B is the correct answer.
 25. Ans. C.

Village	Total people	Male	Female	Children
A	280	140	90	50
B	300	160	80	60
C	340	100	160	80
D	260	120	80	60
E	400	220	120	60

Females from village C = 160
 Children from village B and D = $60 + 60 = 120$
 According to the questions,
 $(160 - 120) \times 100 / 120 = 33.33\%$
 Hence, option C is the correct answer.
 26. Ans. D.

Ans. D
 Number of employees in marketing department.
 $= (4000 \times 30) / 100 = 1200$
 Number of women in marketing = $(1200 \times 2) / 5 = 480$
 27. Ans. C.

Ans. C
 Number of women working in Marketing department
 $= (4000 \times 30 \times 2) / (100 \times 5) = 480$
 Number of men in IT department
 $= (4000 \times 20 \times 4) / (100 \times 5) = 640$
 Required ratio = $480 : 640 \rightarrow 3 : 4$
 28. Ans. A.

Ans. A
 Number of employees in IT department
 $= (4000 \times 20) / 100 = 800$
 Number of men

$= (800 \times 4) / 5 = 640$
 Required percentage = $(640 / 800) \times 100 = 80\%$

29. Ans. B.

Ans. B
 Number of women in Account department
 $= (4000 \times 15 \times 8) / (100 \times 15) = 320$
 Required percentage
 $= (320 / 4000) \times 100 = 8\%$

30. Ans. A.

Ans. A
 Total number of employee working production and IT department is
 $= [4000 \times (25 + 20)] / 100 = 1800$

31. Ans. B.

Let the population of Town A in year 2000 and 2001 be A_{2000} and A_{2001}
 The population of Town A in year 2001 is increased by 20% with respect to year 2000.

$$A_{2001} = 18000 \times 1.2 = 21600 \dots \dots \dots (1)$$

Let the population of Town B in year 2000 and 2001 be B_{2000} and B_{2001}
 The population of Town B in years 2001 with respect to year 2000 is decreased by 10%

$$\therefore \frac{B_{2000} - B_{2001}}{B_{2000}} \times 100 = 10$$

Substituting for population of town B in 2000 we get,

$$\therefore \frac{11000 - B_{2001}}{11000} \times 100 = 10$$

$$\therefore \frac{11000 - B_{2001}}{110} = 10$$

$$\therefore 11000 - B_{2001} = 10 \times 110 = 1100$$

$$\therefore B_{2001} = 9900 \dots \dots \dots (2)$$

Total population in 2001 = $A_{2001} + B_{2001}$
 Substituting values from (1) and (2) we get,

$$\text{Total population in 2001} = 21600 + 9900 = 31500$$

Hence the answer is option (B).

32. Ans. C.

Let the population of Town A in year 1996, 1998 and 2000 be A_{1996} , A_{1998} and

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A_{2000} respectively.

Let the population of Town B in year

1997 and 1999 be B_{1997} and B_{1999} respectively

From the graph we have,

$$A_{1996} = 10000$$

$$A_{1998} = 9000$$

$$A_{2000} = 18000$$

$$B_{1997} = 12000$$

$$B_{1999} = 10000$$

$$\text{Required Ratio} = \frac{A_{1996} + A_{1998} + A_{2000}}{B_{1997} + B_{1999}}$$

Substituting values we get,

$$\text{Required Ratio} = \frac{10000 + 9000 + 18000}{12000 + 10000}$$

$$\text{Required Ratio} = \frac{37000}{22000}$$

$$\text{Required Ratio} = \frac{37}{22}$$

$$\text{Required Ratio} = 22$$

Hence the answer is option (C).

33. Ans. D.

Let the population of Town A in year

1998 and 2000 be A_{1998} and A_{2000} respectively.

Let the population of Town B in year

1998 and 2000 be B_{1998} and B_{2000} respectively

Total population of both towns in 2000 =

$$A_{2000} + B_{2000}$$

From Graph,

Total population of both towns in 2000 = $18000 + 11000 = 29000$

Total population of both towns in 1998 =

$$A_{1998} + B_{1998}$$

From Graph,

Total population of both towns in 1998 = $9000 + 8000 = 17000$

Percent Difference

$$= \frac{\text{Total population of 2000} - \text{Total population of 1998}}{\text{Total population of 1998}} \times 100$$

Percent Difference =

$$\frac{29000 - 17000}{17000} \times 100$$

$$\frac{12000}{170}$$

$$\text{Percent Difference} = 70.58\%$$

Percent Difference = 70.58%

Hence the answer is option (D).

34. Ans. A.

Let the population of Town A in year

1996, 1997, 1998, 1999 and 2000 be A_{1996} , A_{1997} , A_{1998} , A_{1999} and A_{2000} respectively.

Let the population of Town B in year

1996, 1997, 1998, 1999 and 2000 be B_{1996} , B_{1997} , B_{1998} , B_{1999} and B_{2000} respectively

From the graph we have,

$$A_{1996} = 10000$$

$$A_{1997} = 7000$$

$$A_{1998} = 9000$$

$$A_{1999} = 20000$$

$$A_{2000} = 18000$$

$$B_{1996} = 15000$$

$$B_{1997} = 12000$$

$$B_{1998} = 8000$$

$$B_{1999} = 10000$$

$$B_{2000} = 11000$$

Average Population of Town A =

$$\frac{A_{1996} + A_{1997} + A_{1998} + A_{1999} + A_{2000}}{5}$$

Substituting values we get,

Average Population of Town A =

$$\frac{10000 + 7000 + 9000 + 20000 + 18000}{5}$$

$$\frac{64000}{5}$$

$$\text{Average Population of Town A} = 12800$$

$$\text{Average Population of Town A} = 12800$$

Average Population of Town B =

$$\frac{15000 + 12000 + 8000 + 10000 + 11000}{5}$$

$$\frac{56000}{5}$$

$$\text{Average Population of Town B} = 11200$$

$$\text{Average Population of Town B} = 11200$$

Difference = Average Population of Town

A - Average Population of Town B

$$\text{Difference} = 12800 - 11200$$

Difference = 1600

Hence the answer is option (A).

35. Ans. D.

Let the population of Town A in year

1997, 1998 and 1999 be A_{1997} , A_{1998} and A_{1999} respectively.

Let the population of Town B in year

1997, 1998 and 1999 be B_{1997} , B_{1998} and B_{1999} respectively

From the graph we have,

$$A_{1997} = 7000$$

$$A_{1998} = 9000$$

$$A_{1999} = 20000$$

$$B_{1997} = 12000$$

$$B_{1998} = 8000$$

$$B_{1999} = 10000$$

Total population from 1997 to 1999 =

$$A_{1997} + A_{1998} + A_{1999} + B_{1997} + B_{1998} + B_{1999}$$

Substituting values we get,

Total population from 1997 to 1999 =

$$7000 + 9000 + 20000 + 12000 + 8000 + 10000$$

Total population from 1997 to 1999 =

$$66000$$

Hence the answer is option (D).

36. Ans. A.

Company A in 2008, income:

expenditure = 150:100 = 3:2

company B in 2007, income:

expenditure = 125:100 = 5:4

now given, income of A in 2008 same as expenditure of B in 2007

Income A : expenditure A = 3:2 multiply by 4

Income B : expenditure B = 5:4 multiply by 3

Income A : expenditure A = 12 : 8

Income B : expenditure B = 15 : 12

profit of A in 2008 = 12-8 = 4

profit of B in 2007 = 15-12 = 3

Required Ratio = 4:3

37. Ans. A.

Let the expenditures of company B and C were x and y respectively in the year 2009.

Now,

$$1.3x = 1.2y$$

$$x : y = 12 : 13$$

38. Ans. D.

In 2007, Company B earned minimum percentage profit.

In 2008, Company C earned minimum percentage profit.

In 2009, Company C earned minimum percentage profit.

In 2010, Company B earned minimum percentage profit.

Hence both companies B and C earned the minimum percentage profit two (maximum) times.

39. Ans. A.

Let the expenditures of company A and C were x and y respectively in the year 2010. Then

$$0.6x = 0.35y$$

$$x : y = 7 : 12$$

$$\text{let } x = 7p \text{ \& } y = 12p$$

Expenditure of company A = 7p

Expenditure of company C = 12p

Income of company C

$$= 1.35 \times 12p = 16.2p$$

Required percentage

$$= \frac{16.2p}{7p} \times 100 \approx 230\%$$

40. Ans. D.

Since the expenditure kept on increasing, company A has maximum expenditure in 2010. Also the profit % is maximum for 2010, so the income will also be maximum for 2010.

41. Ans. A.

Company	Plastic Bats	Wooden Bats	Brand B	Brand A
R	275000	275000	55000	220000
S	385000	165000	27500	137500
T	220000	330000	110000	220000
U	220000	330000	55000	275000
V	275000	275000	137500	137500

Reqd. Ratio = 55000/550000 = 1:10

42. Ans. B.

Company	Plastic Bats	Wooden Bats	Brand B	Brand A
R	275000	275000	55000	220000
S	385000	165000	27500	137500
T	220000	330000	110000	220000
U	220000	330000	55000	275000
V	275000	275000	137500	137500

$$P = 27500 + 137500 = 165000$$

$$Q = 275000 - 55000 = 220000$$

So, Q-P = 220000-165000=55000
43. Ans. C.

Total wooden bats of brand A are manufactured by all the companies = 220000+137500+220000+275000+137500 = 990000

44. Ans. D.

Company	Plastic Bats	Wooden Bats	Brand B	Brand A
R	275000	275000	55000	220000
S	385000	165000	27500	137500
T	220000	330000	110000	220000
U	220000	330000	55000	275000
V	275000	275000	137500	137500

Reqd. number = 220000

45. Ans. E.

Company	Plastic Bats	Wooden Bats	Brand B	Brand A
R	275000	275000	55000	220000
S	385000	165000	27500	137500
T	220000	330000	110000	220000
U	220000	330000	55000	275000
V	275000	275000	137500	137500

$$\frac{220000+275000}{2} = 247500$$

$$X = 2$$

$$Y = 220000$$

$$\text{So, } X-Y = 247500 - 220000 = 27500$$

46. Ans. C.

Percentage of Apples produced in country C = 3.85%

Percentage of Grapes produced in country C = 5.63%

Combined percentage of Apples and Grapes = 3.85 + 5.63 = 9.48%

Thus, the weight of apples and grapes produced comprises 9.48% of the total fruit production.

∴ Weight of Apples and Grapes =

$$\frac{9.48}{100} \times 50000$$

∴ Weight of Apples and Grapes = 4740 kilos

Hence the correct option is option (C).

47. Ans. B.

Percentage of Mangoes produced in country C = 25.7%

Thus, the weight of mangoes produced comprises 25.7% of the total fruit production.

∴ Weight of Mangoes produced =

$$\frac{25.7}{100} \times 50000$$

∴ Weight of Mangoes produced = 12850 kilos

The Mangoes cost Rs. 480 per kilo.

∴ Money earned = 12850 kilos × 480

∴ Money earned = Rs. 6168000

Hence the correct option is option (B).

48. Ans. A.

Percentage of Bananas produced in country C = 50.5%

Thus, the weight of Bananas produced comprises 50.5% of the total fruit production.

∴ Weight of Bananas produced =

$$\frac{50.5}{100} \times 50000$$

∴ Weight of Bananas produced = 25250 kilos

The Bananas cost Rs. 36 per kilo.

∴ Selling price of bananas = 25250 kilos × 36

∴ Selling price of bananas = Rs. 909000

Percentage of Grapes produced in country C = 5.63%

Thus, the weight of Grapes produced comprises 5.63% of the total fruit production.

∴ Weight of Grapes produced =

$$\frac{5.63}{100} \times 50000$$

∴ Weight of Grapes produced = 2815 kilos

The Grapes cost Rs. 100 per kilo.

∴ Selling price of grapes = 2815 kilos × 100

∴ Selling price of grapes = Rs. 281500

∴ Required Percentage =

$$\frac{909000 - 281500}{281500} \times 100$$

∴ Required Percentage =

$$6275 \times 100 / 2815 = 222.91 =$$

223 (approximately)

Hence the correct option is option (A).

49. Ans. D.

Percentage of Apples produced in country C = 3.85%

Thus, the weight of Apples produced comprises 3.85% of the total fruit production.

∴ Weight of Apples produced =

$$\frac{3.85}{100} \times 50000$$

∴ Weight of Apples produced = 1925 kilos

Percentage of Mangoes produced in country C = 25.7%

Thus, the weight of mangoes produced comprises 25.7% of the total fruit production.

∴ Weight of Mangoes produced =

$$\frac{25.7}{100} \times 50000$$

∴ Weight of Mangoes produced = 12850 kilos

$$\frac{1925 + 12850}{2}$$

∴ required average =

$$2$$

∴ required average = 7387.5 kilos

Hence the correct option is option (D).

50. Ans. E.

Percentage of Grapes produced in country C =

$$5.63\%$$

Thus, the weight of Grapes produced

comprises 5.63% of the total fruit production.

∴ Weight of Grapes produced =

$$\frac{5.63}{100} \times 50000$$

∴ Weight of Grapes produced = 2815 kilos

Percentage of other Fruits produced in country C =

$$14.5\%$$

Thus, the weight of other Fruits produced comprises 14.5% of the total fruit production.

∴ Weight of other Fruits produced =

$$\frac{14.5}{100} \times 50000$$

∴ Weight of other Fruits produced = 7250 kilos

$$\frac{2815}{7250} = \frac{563}{1450}$$

∴ Required Ratio =

∴ Required Ratio = 563 : 1450

Hence the correct option is option (E).

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