

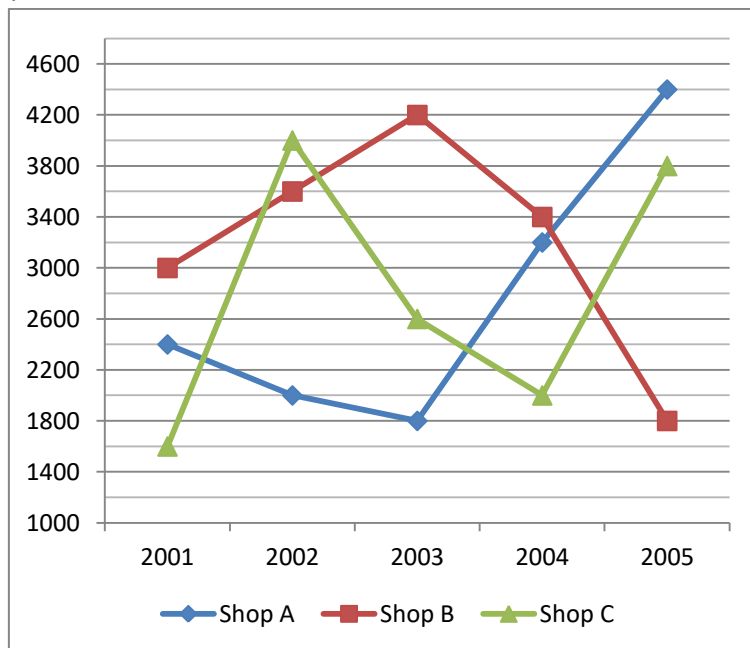
Expected Line Graph DI for Upcoming Bank Prelims Exam

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LINE GRAPH DI (Easy)

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

Following line-graph represents the data regarding total number of sarees sold by different shops during the following year.



1. What is the respective ratio of total number of sarees sold from shop A in 2004 to the total number of sarees sold from shop C in 2002?

- a) 3: 4
- b) 4: 5
- c) 5: 6
- d) 6: 7
- e) 7: 8

2. What is the average of total number of sarees sold from all given shops taken together in 2002?

- a) 3000
- b) 3100

c) 3200

d) 3300

e) 3400

3. Total number of sarees sold from shop B and C taken together in 2003 are approximately what percent of total number of sarees sold from same shops taken together in 2005?

- a) 108%
- b) 111%
- c) 115%
- d) 118%
- e) 121%

4. What is the difference between total number of sarees sold from shop B in 2002 and 2004 taken together and total number of sarees sold from shop A in same time period?

- a) 800
- b) 1200
- c) 1000
- d) 1800
- e) 1400

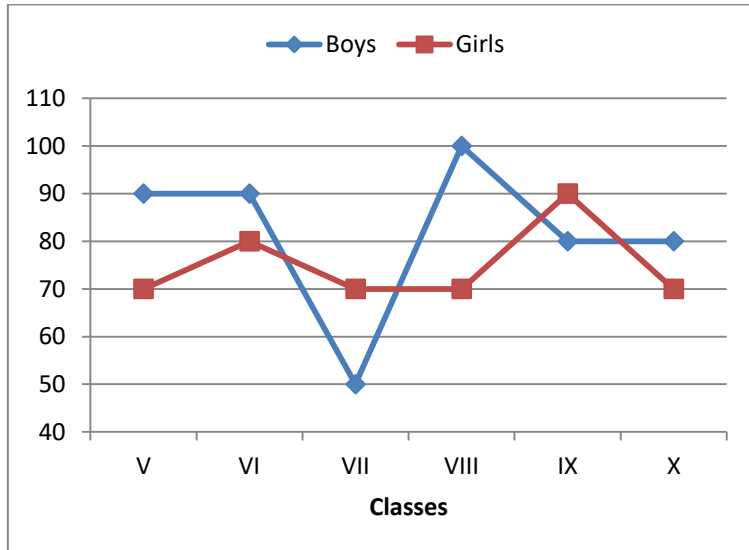
5. What is the respective ratio of total number of sarees sold from all given shops taken together in 2001 to the total number of sarees sold from all given shops taken together in 2003?

- a) 22: 25
- b) 11: 14
- c) 10: 13
- d) 26: 29
- e) 35: 43

Directions (6 – 10): Study the following graph and answer the questions.

Expected Line Graph DI for Upcoming Bank Prelims Exam

The line graph given below showing the Result of annual exam (in percentage) from six classes(V, VI, VII, VIII, IX, X).Result of annual exam (in percentage)



6. In which pair of classes are the results of girls and boys inverse proportion?

- a) V and X
- b) VI and IX
- c) VI and VIII
- d) VII and X
- e) None of these

7. In which class is the failure of boys the lowest or nil?

- a) X
- b) IX
- c) VIII
- d) VII
- e) None of these

8. In which class is the result of the girls more than the average result of the boys for the school?

- a) VIII
- b) X
- c) IX
- d) VI
- e) None of these

9. In which class is the result of boys less than the overall average result of the girls?

- a) VII
- b) VIII
- c) IX

d) X

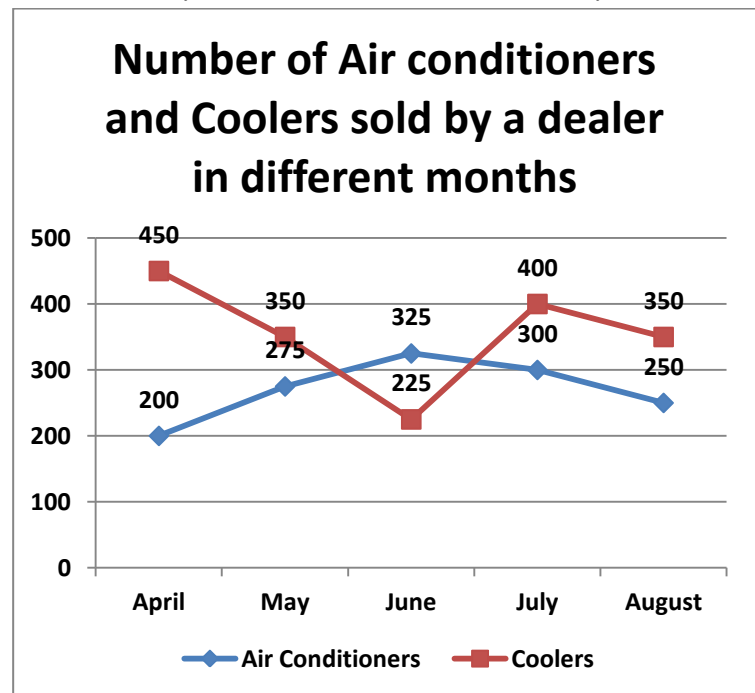
e) None of these

10. In which class is the difference between the result of girls and that of boys maximum?

- a) V
- b) VII
- c) VIII
- d) X
- e) None of these

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

The given graph shows the number of Air conditioners and Coolers sold by a dealer in different months of a year.



11. Find the difference between the average number of Air conditioners sold in May, June, and July taken together and the average number of Coolers sold in May, June, and July taken together.

- a) 10
- b) 15
- c) 20
- d) 25
- e) None of these

Expected Line Graph DI for Upcoming Bank Prelims Exam

12. The total number of air conditioners and coolers sold in August is what percentage more or less than the number of air conditioners sold in April and July taken together?

- a) 20%
- b) 25%
- c) 40%
- d) 50%
- e) None of these

13. Find the difference between the total number of Air conditioners and Coolers sold in May and the total number of Air conditioners and Coolers sold in June.

- a) 50
- b) 75
- c) 125
- d) 100
- e) None of these

14. Find the average number of coolers sold in each of the given months.

- a) 365
- b) 335
- c) 350
- d) 345
- e) 355

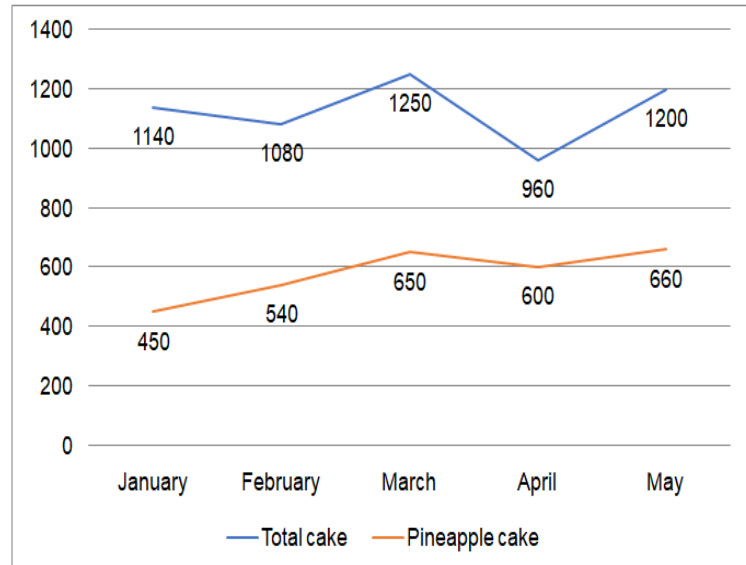
15. Find the ratio of number of Air conditioners sold in May to the number of Coolers sold in June.

- a) 11:9
- b) 9:7
- c) 7:5
- d) 5:3
- e) None of these

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

The line graph shows the number of cakes sold by a shop in five different months.

Total Cake = Chocolate cake + Pineapple cake



16. Find the total number of chocolate cakes sold by shop in January and March together.

- a) 1150
- b) 1290
- c) 1080
- d) 1230
- e) None of these

17. Find the ratio of the number of chocolate cakes sold in March and May together to the number of total cakes sold by shop in January.

- a) 5:6
- b) 2:3
- c) 1:1
- d) 6:5
- e) 3:2

18. The total number of cakes sold by shop in May is equal to the sum of the pineapple cakes sold for which one of the following pairs?

- a) April and May
- b) January and March
- c) February and May
- d) February and March
- e) January and April

19. The number of chocolate cakes sold by shop in May is what percent of the total number of cakes sold by shop in same month?

- a) 45%
- b) 40%

Expected Line Graph DI for Upcoming Bank Prelims Exam

c) 60%

d) 55%

e) 30%

20. Find the difference between the number of pineapple cakes sold by shop in January and May.

a) 180

b) 320

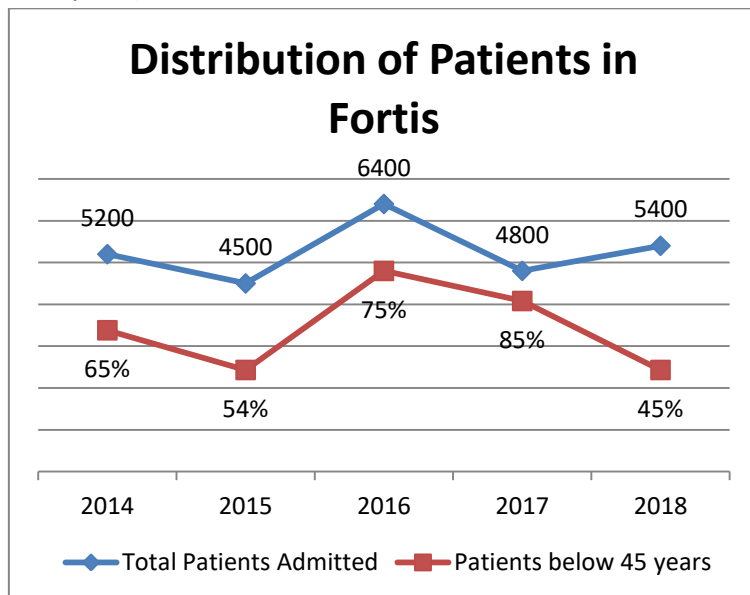
c) 250

d) 210

e) None of these

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

The line graph given below shows the total number of patients admitted, and percentage of patients below 45 years of age out of the total number of patients admitted in Fortis hospital from 2014 to 2018. (There are no patients whose age is 45 years)



21. Find the number of patients above 45 years of age admitted in 2017.

a) 720

b) 1600

c) 2940

d) 1820

e) 760

22. Number of patients above 45 years of age admitted in 2014 is how much percent more than the number of patients above 45 years of age admitted in 2016?

a) 17.5%

b) 13.75%

c) 24%

d) 12.25%

e) 30%

23. What is the ratio of the number of patients above 45 years of age admitted in 2015 to the number of patients above 45 years of age admitted in 2018?

a) 27:23

b) 33:37

c) 23:33

d) 32:39

e) 31:41

24. What is the difference between the average number of patients below 45 years of age admitted in 2015, 2016 and 2018 together, and average number of patients above 45 years of age admitted from 2014 to 2018?

a) 1736

b) 1436

c) 1534

d) 1384

e) 1283

25. If number of patients admitted in 2019 is 25% more than patients admitted in 2018 and out of them 58% are below 45 years of age then find the number of patients above 45 years of age admitted in 2019.

a) 2385

b) 2583

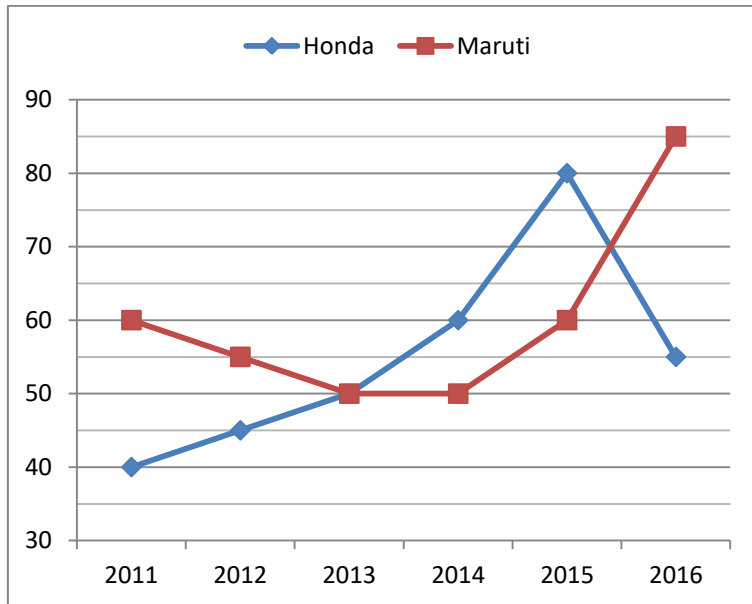
c) 2485

d) 2145

e) 2835

Directions (26 – 30): Line-chart given below shows production of two companies (in lakhs) Maruti and Honda in six different years. Study the data carefully & answer the following questions.

Expected Line Graph DI for Upcoming Bank Prelims Exam



26. Total production of Maruti in year 2011, 2012 and 2013 together is what percent more/less than total production of Honda in same years?

- a) $22\frac{2}{9}\%$ less
- b) $22\frac{2}{9}\%$ more
- c) $11\frac{1}{9}\%$ less
- d) $11\frac{1}{9}\%$ more
- e) $16\frac{2}{3}\%$ less

27. Average production of Maruti in year 2014, 2015 and 2016 together is how much more/less than the average production of Honda in year 2014, 2015 and 2016 together. (in lakhs)

- a) 8
- b) 5
- c) 10
- d) 0
- e) 12

28. Total production of Honda in six years is what percent more or less than total production of Maruti in six years?

- a) $9\frac{1}{11}\%$ more
- b) $8\frac{1}{3}\%$ more
- c) $8\frac{1}{3}\%$ less
- d) $9\frac{1}{11}\%$ less
- e) 10% less

29. In 2017, production of Maruti and Honda increase by 20% and 40% respectively with respect to year 2016. Find the total production in 2017. (in lakh)

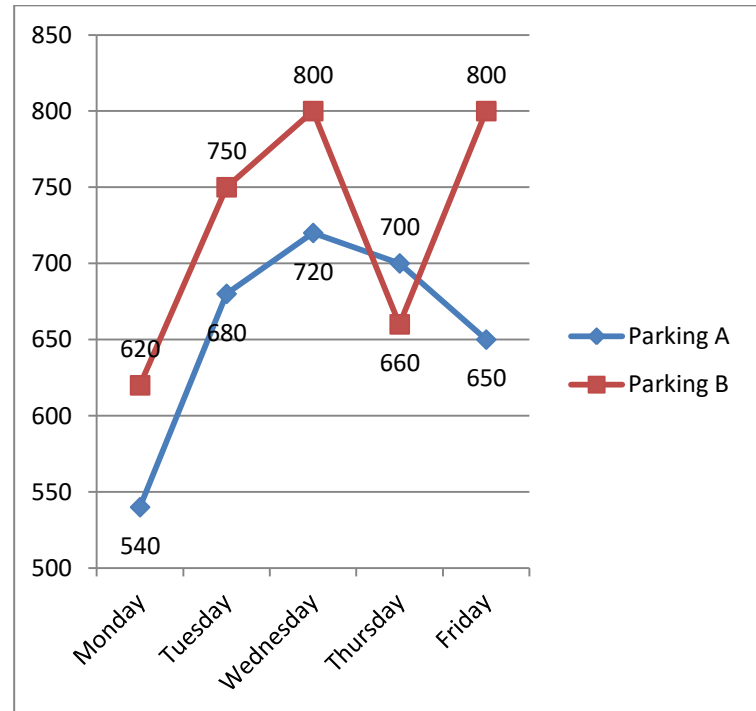
- a) 179
- b) 185
- c) 190
- d) 195
- e) 197

30. Find the ratio of total production of Maruti in 2013, 2014 and 2015 together to the total production of Honda in 2014 and 2015 together?

- a) 9 : 8
- b) 9 : 7
- c) 7 : 8
- d) 8 : 7
- e) 8 : 9

Directions (31 – 35): Answer the questions based on the information given below.

The Line graph given below shows the number of car parked in two different parking in five different days.



31. What is the ratio of the number of cars parked on Friday in parking A to that of number of cars parked on Tuesday in parking B?

- a) 5:6
- b) 12:11
- c) 13:14
- d) 14:15

Expected Line Graph DI for Upcoming Bank Prelims Exam

e) None of these

32. Find the total number of cars parked on Monday and Tuesday together in parking A.

a) 1220

b) 1150

c) 1420

d) 1080

e) None of these

33. What is the difference between the average number of cars parked in parking A on Wednesday and Thursday together, and the average number of cars parked in parking B on Monday and Friday together?

a) 20

b) 40

c) 60

d) 50

e) None of these

34. If the number of car parked in parking B on Saturday is 15% less than the number of car parked in parking B on Friday, then find the number of car parked in parking B on Saturday.

a) 720

b) 680

c) 750

d) 650

e) 660

35. The number of cars parked in parking A on Wednesday is how much percent more/less than the number of cars parked in parking B in same day?

a) 12%

b) 10%

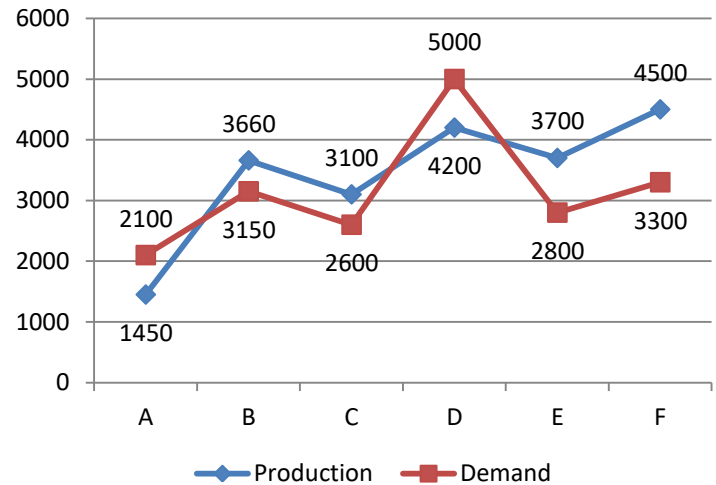
c) 15%

d) 18%

e) 20%

Directions (36 – 40): Read the following graph carefully and answer the given questions:

Graph below shows the data related to Production and Demand



36. What is the ratio of no of companies having more demand while compared with production to those companies having more production while compared with demand?

a) 1:2

b) 2:3

c) 2:1

d) 3:2

e) None of these

37. What is the difference between the average demand and the average production of all the companies (6pprox.)?

a) 450

b) 280

c) 277

d) 128

e) None of these

38. The difference between production and demand of company B is what percent more/ less than the difference between the production and demand of company F?

a) 57.5% less

b) 67.5% more

c) 50% more

d) 50% less

e) None of these

Expected Line Graph DI for Upcoming Bank Prelims Exam

39. The production of company A is approximately what percent of the demand of company C?

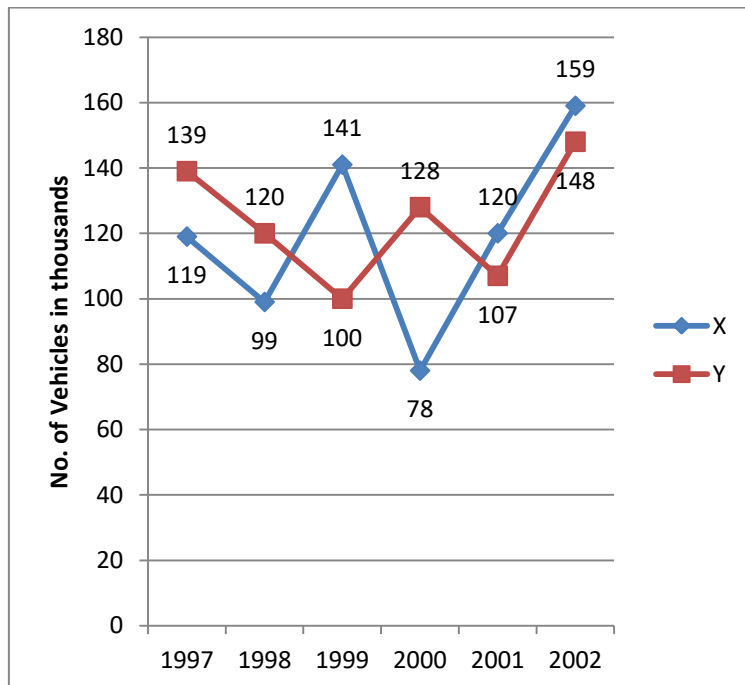
- a) 45
- b) 74
- c) 55
- d) 23
- e) None of these

40. The average production of companies C and D is approximately what percent of the average demand of A and E?

- a) 149
- b) 165
- c) 76
- d) 130
- e) None of these

Directions (41 – 45): Study the following line graph and answer the questions based on it.

Vehicles made by two companies



41. What is the difference between the two companies in the given years ?

- a) 16000
- b) 26000
- c) 28000
- d) 30000

e) 27000

42. What is the difference between the numbers of vehicles manufactured by Company Y in 2000 and 2001 ?

- a) 21000
- b) 22000
- c) 23000
- d) 24000
- e) 25000

43. What is the average number of vehicles manufactured by Company X over the given period ?

- a) 119133
- b) 119233
- c) 119333
- d) 119433
- e) 119533

44. In which of the following years, the difference between the productions of Companies X and Y was the maximum among the given years ?

- a) 1800
- b) 1875
- c) 1900
- d) 2000
- e) 1975

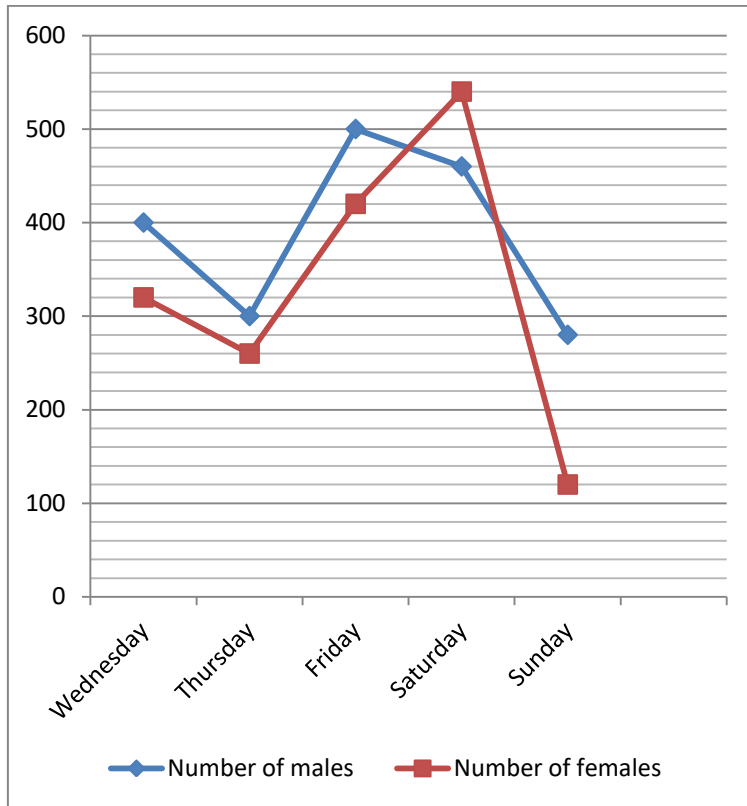
45. The production of Company Y in 2000 was approximately what percent of the production of Company X in same year ?

- a) 163%
- b) 164%
- c) 165%
- d) 166%
- e) 171%

Directions (46 – 50): Answer the questions based on the information given below.

The given line graph shows the number of males and the number of females who booked tickets either online or offline of a movie on five different days of a week.

Expected Line Graph DI for Upcoming Bank Prelims Exam



46. On Wednesday, if 20% of males and 40% of females booked tickets online then how many people booked offline tickets?

- a) 598
- b) 468
- c) 512
- d) 624
- e) None of these

47. Number of males who booked the tickets on Sunday is how much percent more/less than the total number of people who bought tickets on Thursday?

- a) 50%
- b) 60%
- c) 40%
- d) 30%
- e) 80%

48. Find the ratio of total number of people who booked tickets on Friday to the number of people who booked tickets on Sunday.

- a) 18:11
- b) 7:20
- c) 19:15
- d) 23:10
- e) None of these

49. The number of tickets booked of Rs. 250, Rs. 500 and Rs. 750 are in the ratio 11:22:7, respectively on Saturday. Find the total revenue generated from the number of tickets booked of Rs. 500 on Saturday.

- a) Rs. 205000
- b) Rs. 275000
- c) Rs. 185000
- d) Rs. 310000
- e) Rs. 325000

50. Find the average number of people who booked tickets on Wednesday, Friday and Sunday.

- a) 680
- b) 720
- c) 590
- d) 450
- e) None of these

Explanation and Answer

1. Answer: B)

Total number of sarees sold from shop A in 2004 = 3200

Total number of sarees sold from shop C in 2002 = 4000

Ratio = 3200: 4000 = 4: 5

2. Answer: C)

Total number of sarees sold from all given shops taken together in 2002

= 2000 + 3600 + 4000

= 9600

Therefore, average = 9600/3 = 3200

3. Answer: E)

Total number of sarees sold from shop B and C taken together in 2003

= 4200 + 2600

= 6800

Total number of sarees sold from shop B and C taken together in 2005

= 1800 + 3800

Expected Line Graph DI for Upcoming Bank Prelims Exam

= 5600

Therefore, percentage = $(6800/5600) \times 100 = 121\%$ (approx.)

4. Answer: D)

Total number of sarees sold from shop B in 2002 and 2004 taken together

= 3600 + 3400

= 7000

Total number of sarees sold from shop A in 2002 and 2004 taken together

= 2000 + 3200

= 5200

Therefore, difference = 7000 - 5200 = 1800

5. Answer: E)

Total number of sarees sold from all given shops taken together in 2001

= 2400 + 3000 + 1600

= 7000

Total number of sarees sold from all given shops taken together in 2003

= 1800 + 4200 + 2600

= 8600

Therefore, ratio = 7000 : 8600 = 35 : 43

6. Answer: B)

From the graph we see class VI and class IX have inverse relationship.

7. Answer: C)

From the graph, result of failed boys is lowest in class VIII.

Because if pass percentage is high it means failure is less i.e. in 100% if pass percentage is 95% it is known that fail percentage is 5%. So when we compare the pass percentage of boys class VIII have higher (100%) when compare to other so it the correct option.

8. Answer: C)

(c) Average result of boys

$$= \frac{90+90+50+100+80+80}{6} = \frac{490}{6} = 81\frac{21}{3}$$

For class IX, result of girls is more than average result of boys.

9. Answer: A)

(a) Average result of girls

$$= \frac{(70+80+70+70+90+70)}{6} = 75$$

∴ Class VII have boys result less than average result of girls.

10. Answer: C)

For class VIII, difference is maximum i.e., 30%

11. Answer: D)

Average number of Air conditioners sold in May, June, and

July = $(275 + 325 + 300)/3 = 300$

Average number of Coolers sold in May, June, and July = $(350 + 225 + 400)/3 = 325$

Therefore, required difference = 325 - 300 = 25

12. Answer: A)

Total number of Air conditioners and Coolers sold in August = 250 + 350 = 600

Total number of Air conditioners sold in April and July = 200 + 300 = 500

Therefore, required percentage = $[(600 - 500)/500] \times 100 = 20\%$

13. Answer: B)

Total number of Air conditioners and Coolers sold in May = 275 + 350 = 625

Total number of Air conditioners and Coolers sold in June = 325 + 225 = 550

Therefore, required difference = 625 - 550 = 75

14. Answer: E)

Required average = $(450 + 350 + 225 + 400 + 350)/5 = 355$

15. Answer: A)

Required ratio = 275 : 225 = 11 : 9

(16 - 20): Common Explanation:

Months	Total number of cakes	Pineapple Cake	Chocolate Cake
January	1140	450	1140 - 450 = 690
February	1080	540	1080 - 540 = 540
March	1250	650	1250 - 650 = 600
April	960	600	960 - 600 = 360
May	1200	660	1200 - 660 =

Expected Line Graph DI for Upcoming Bank Prelims Exam

			540
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16. Answer: B)

Required sum = $690 + 600 = 1290$

17. Answer: C)

Required ratio = $(600 + 540):1140 = 1140:1140 = 1:1$

18. Answer: C)

Total number of cakes sold by shop in May = 1200

Pineapple cake sold by shop in February and May = $540 + 660 = 1200$

19. Answer: A)

Required percentage = $540/1200 \times 100 = 45\%$

20. Answer: D)

Required difference = $660 - 450 = 210$

(21 – 25): Common Explanation:

Year	Total patients admitted	Patients below 45 years	Patients above 45 years
2014	5200	$0.65 \times 5200 = 3380$	$5200 - 3380 = 1820$
2015	4500	$0.54 \times 4500 = 2430$	$4500 - 2430 = 2070$
2016	6400	$0.75 \times 6400 = 4800$	$6400 - 4800 = 1600$
2017	4800	$0.85 \times 4800 = 4080$	$4800 - 4080 = 720$
2018	5400	$0.45 \times 5400 = 2430$	$5400 - 2430 = 2970$

21. Answer: A)

Required number of patients = 720

22. Answer: B)

Required percentage = $\{(1820 - 1600)/1600\} \times 100 = 13.75\%$

23. Answer: C)

Required ratio = $2070:2970 = 23:33$

24. Answer: D)

Average number of patients below 45 years of age admitted in 2015, 2016 and 2018 = $(2430 + 4800 + 2430)/3 = 9660/3 = 3220$

Average number of patients above 45 years of age admitted between 2014 and 2018 = $(1820 + 2070 + 1600 + 720 + 2970)/5 = 9180/5 = 1836$

Required difference = $3220 - 1836 = 1384$

25. Answer: E)

Number of patients admitted in 2019 = $1.25 \times 5400 = 6750$

Number of patients above 45 years of age = $0.42 \times 6750 = 2835$

26. Answer: B)

Total production of Maruti in year 2011,

2012 and 2013 together = $60 + 55 + 50 = 165$ lakhs

Total production of Honda in year 2011, 2012

and 2013 together = $40 + 45 + 50 = 135$ lakh

Required % = $\frac{165-135}{135} \times 100 = 22\frac{2}{9}\%$ more

27. Answer: D)

$$\begin{aligned} \text{Required difference} &= \frac{60+80+55}{3} - \frac{50+60+85}{3} \\ &= \frac{195}{3} - \frac{195}{3} = 0 \end{aligned}$$

28. Answer: C)

Total production of Honda

= $40 + 45 + 50 + 60 + 80 + 55$

= 330 lakh

Total production of Maruti

= $60 + 55 + 50 + 50 + 60 + 85$

= 360 lakh

Required % = $\frac{360-330}{360} \times 100$

= $\frac{30}{360} \times 100 = 8\frac{1}{3}\%$ less

29. Answer: A)

Required value = $55 \times \frac{14}{10} + 85 \times \frac{12}{10}$

= $77 + 102$

= 179 lakh

30. Answer: D)

$$\begin{aligned} \text{Required ratio} &= \frac{50+50+60}{60+80} = \frac{160}{140} \\ &= \frac{8}{7} \end{aligned}$$

31. Answer: E)

Required ratio = $650:750 = 13:15$

32. Answer: A)

Required sum = $540 + 680 = 1220$

33. Answer: E)

Required difference = $(700 + 720)/2 - (620 + 800)/2$

= $710 - 710 = 0$

Expected Line Graph DI for Upcoming Bank Prelims Exam

34. Answer: B)

The number of car parked in parking B on Saturday = $800 \times 85\% = 680$

35. Answer: B)

Difference = $800 - 720 = 80$

Required percentage = $80/800 \times 100 = 10\%$

36. Answer: a)

Companies A and D have more demand than production and the rest of them have more production than demand

Hence Required Ratio = $2:4 = 1:2$

37. Answer: c)

The average demand =

$2100 + 3150 + 2600 + 5000 + 2800 + 3300 / 6 = 3158$

The average production =

$1450 + 3660 + 3100 + 4200 + 3700 + 4500 / 6 = 3435$

Required difference = $3435 - 3158 = 277$

38. Answer: a)

Difference between production and demand of company B =

$3660 - 3150 = 510$

Difference between production and demand of company F =

$4500 - 3300 = 1200$

Required percentage = $690/1200 \times 100 = 57.5\%$ less

39. Answer: c)

$1450/2600 \times 100 = 55\%$

40. Answer: a)

Average production C and D = $(3100 + 4200)/2 = 3650$

Average demand of A and E = $(2100 + 2800)/2 = 2450$

Required Percentage = $3650/2450 \times 100 = 148.97\%$

41. Answer: B

Please note that line graph values are given in thousands.

Total production of Company X from 1997 to 2002 =

$119000 + 99000 + 141000 + 78000 + 120000 + 159000 = 716000$

Total production of Company Y from 1997 to 2002 =

$139000 + 120000 + 100000 + 128000 + 107000 + 148000 = 742000$

Difference = $742000 - 716000$

$= 26000$

42. Answer: A

Required Difference = $128000 - 107000 = 21000$

43. Answer: C

Average number of vehicles manufactured by Company X
 $= 1/6(119000 + 99000 + 141000 + 78000 + 120000 + 159000)$
 $= 119333$

44. Answer: D

Although if we have deep look on line chart the nwe can judge that it was in year 2000

Lets also solve it,

For 1997 = $(139000 - 119000) = 20000$

For 1998 = $(120000 - 99000) = 21000$

For 1999 = $(141000 - 100000) = 41000$

For 2000 = $(128000 - 78000) = 50000$

For 2001 = $(120000 - 107000) = 13000$

For 2002 = $(159000 - 148000) = 11000$

Clearly the difference was maximum in year 2000.

45. Answer: B

Required Percentage = $(128000/78000 \times 100)\% = 164.1\%$

Which is approximately 164%

(46 – 50): Common Explanation:

Day	Number of males	Number of females	Total number of people
Wednesday	400	320	720
Thursday	300	260	560
Friday	500	420	920
Saturday	460	540	1000
Sunday	280	120	400

46. Answer: C)

Number of people who booked offline tickets = $720 - (0.20 \times 400 + 0.40 \times 320) = 512$

47. Answer: A)

Required percentage = $\{(560 - 280)/560\} \times 100 = 50\%$

48. Answer: D)

Required ratio = $920:400 = 23:10$

49. Answer: B)

Total revenue generated = $500 \times 1000 \times 22/40 = \text{Rs. } 275000$

50. Answer: A)

Required average = $(720 + 920 + 400)/3 = 680$

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