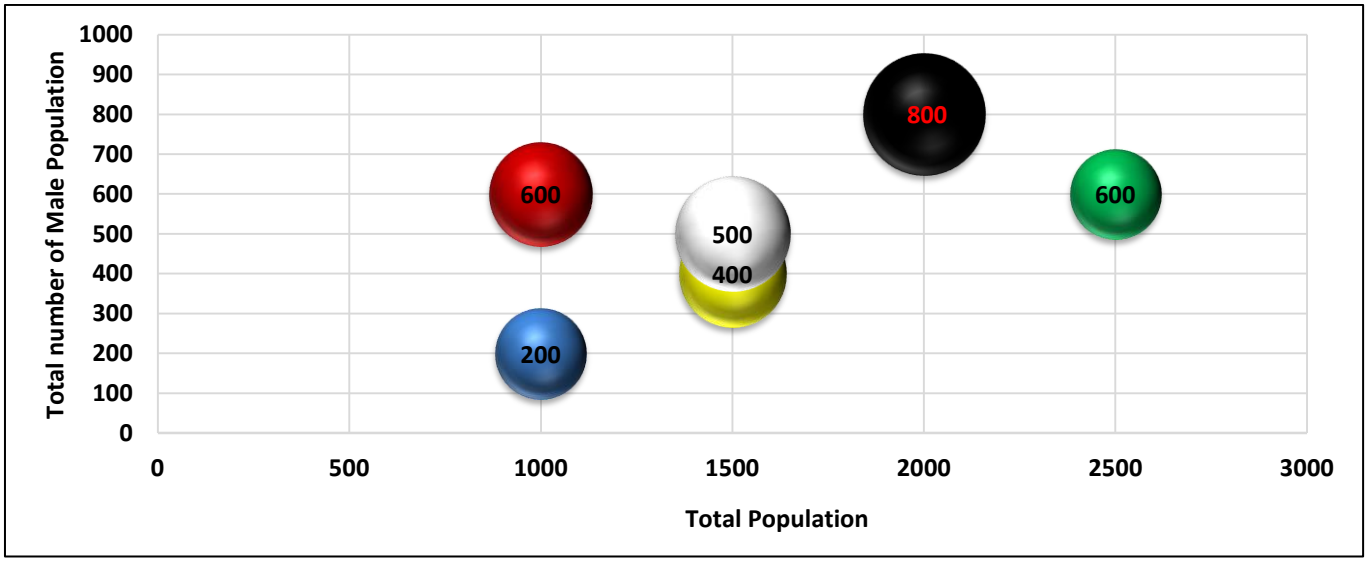
Bubble Chart DI for All Upcoming Bank Clerk Mains Exams

Bubble Chart Based Data Interpretation Questions

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

Following Bubble chart show the total number male out of total population of 6 different villages. Each village is assigned different color bubble i.e. Red, blue, Black, Yellow, green and White, Which represent number of male population out of total number of population of a village.



Bubble Chart DI for All Upcoming Bank Clerk Mains Exams

Note – 1. Total number of population = Male population + Female population

2. Village A, B, C, D, E and F has assigned Red, Blue, Black, Yellow, Green and White respectively

3. X axis, represent number of Male population while Y axis, shows total number of population

1. Total number of Female from B,C and E together is how much % more or less than the total number of Female population from D, E and F together?

a) 3.4%

b) 2.5%

c) 2%

d) 2.4%

e) None of the above

2. From village A, income of one male and one female is 2500 and 3500 respectively while from B income of one male is 20% more than the income of one male from village A and income of one female is 65% of the income of one female from village A. then find out the difference between total income by all female from A and B to total income by male form A and B together?

a) 2110000

b) 1210000

c) 1120000

d) 1110000

e) None of these

3. What is the ratio of Total male to total female form all the village together?

a) 31:64

b) 59:62

c) 92:62

d) 21:62

e) None of these

4. From Village D, 25% of total number of male is of 20 or more years of age, while 30 % of female is less than 20 years of age. Then find the ratio between male of age less than 20 to female of age 20 or more from village D?

a) 33:67

b) 32:67

c) 31:63

d) 32:77

e) None of the above

5. Female population form E is coded as $, while Female population from Village F is coded as #. Then find the value of (20%of $ + 55% of #)?

a) 390

b) 980

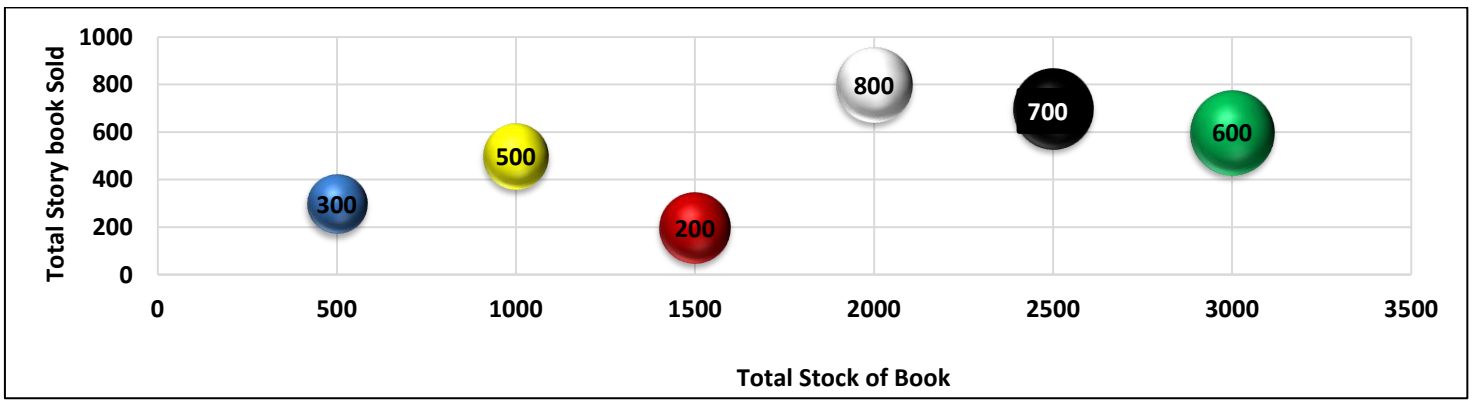
c) 890

d) 930

e) None of these

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

Following Bubble chart show the total number Story book sold by 6 different sellers (P, Q, R, S, T and U) out of total stock of book in a book fair. In The fair each seller is assigned different color bubble i.e. Red, blue, Black, Yellow, green and White, Which represent number of story book sold out of total number of book they have.



Note – 1. Total Stock of Story book = Total Story book sold + Total story book not sold (Unsold)

2. Seller P, Q, R, S, T and U has assigned Red, Blue, Black, Yellow, Green and White respectively

3. X axis, represent number of story book sold while Y axis, shows total stock of story book with each seller

6. Highest number of story book sold by a seller is how much % more than the lowest number of story book sold by a seller?

a) 300% more

b) 350% more

c) 250% more

d) 155% more

e) None of these

7. Price of one story-book by P, Q and R is 12, 15 and 18 rupees respectively. Then find out the ratio between total revenue generated by P and Q together to total revenue generated by Q and R together after selling story book?

a) 13.23

b) 52:29

c) 75:32

d) 23:57

e) None of these

8. Total number of unsold stock of book from all the seller together is how much percentage of total stock of book with the entire seller?

a) 70.47%

b) 47.40%

c) 45.55%

d) 66.67%

e) None of these

9. Seller T and U sold the unsold stock of book at half price of actual price of book, then find out total revenue collected by T and U together by selling unsold stock of goods. It is also known that price of one book by seller

Q is 20 rupees which is 20% and 50% less and more, respectively than the price of one book by Seller T and U respectively?

a) 35500

b) 28500

c) 38000

d) 20630

e) 35000

10. Total book sold by Q, R and S is what % of total unsold book by P, U and T together?

a) 52.37%

b) 61.30%

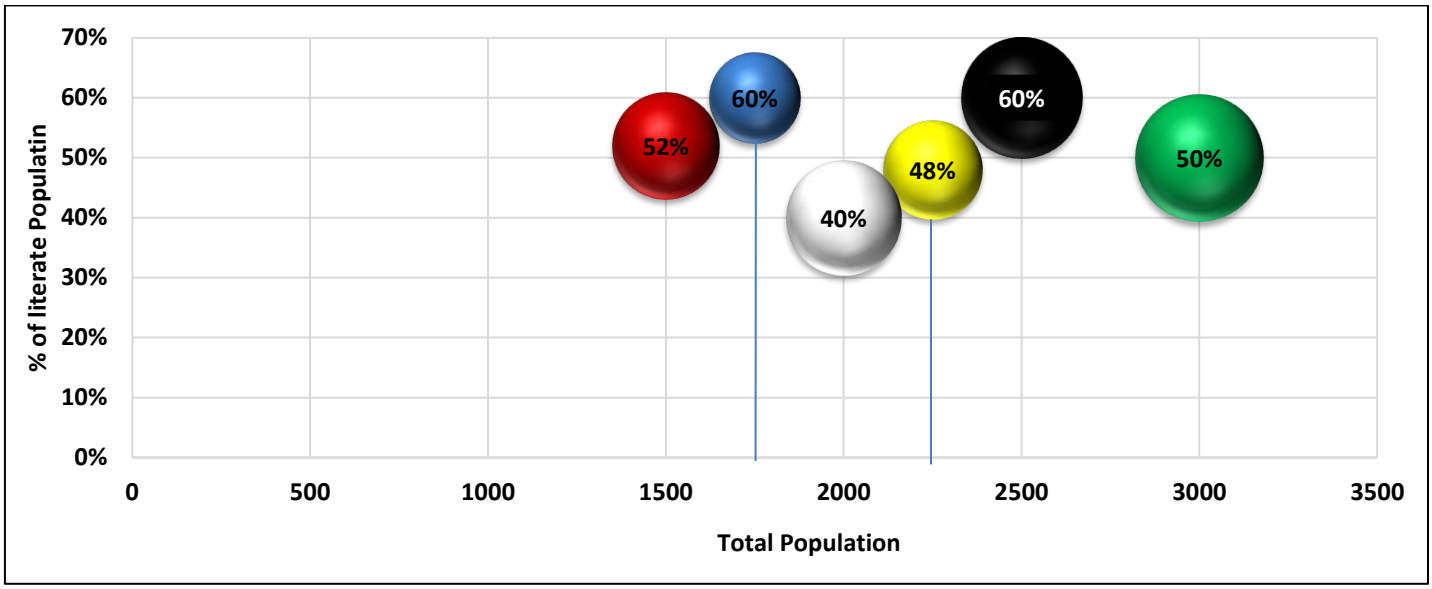
c) 20.31%

d) 30.61%

e) None of these

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

Following Bubble chart show the % of literate population out of total number of population in five different cities (P, Q, R, S, T and U). Each cities is assigned different color bubble i.e. Red, blue, Black, Yellow, green and White, Which represent % of literate population out of total population of cites?



Note – 1. Total Population = Literate population + Illiterate population

2. City - P, Q, R, S, T and U has assigned Red, Blue, Black, Yellow, Green and White respectively

3. X axis, represent Total population of cities while Y axis, shows % of literate population out of total population

11. Find the ratio between total numbers of literate population to total number of illiterate population form all the cities together?

a). 335:221

b). 128:236

c.)179:296

d). 671:629

e). None of these

12. Illiterate male form city R and illiterate female from T is 500 and 500 respectively, then find out literate male from city R is what % more or less than the literate female from city T?

a) 17.50%

b) 18.08%

c) 73.9%

d) 16.45%

e) Can't be demined

13. If the ratio of total male to female from U is 9:11 and there are 700 illiterate female form U then find out total literate male is what % of literate female form the city U?

a) 115%

b) 100%

c) 131%

d) 211%

e) 121%

14. Average number of illiterate population form all the city together is what % of total number of literate population from R, S and T together?

a) 18.25%

b) 12.51%

c) 92.53%

d) 25.69%

e) None of these

15. Ratio between male of U and male of R is 6:5 while ratio of female from U and female from R is 8:15. Then find out the Male form R and female form U is how much more or less than the 1/5th of total literate from P and Q together?

a) 1732

b) 1752

c) 1755

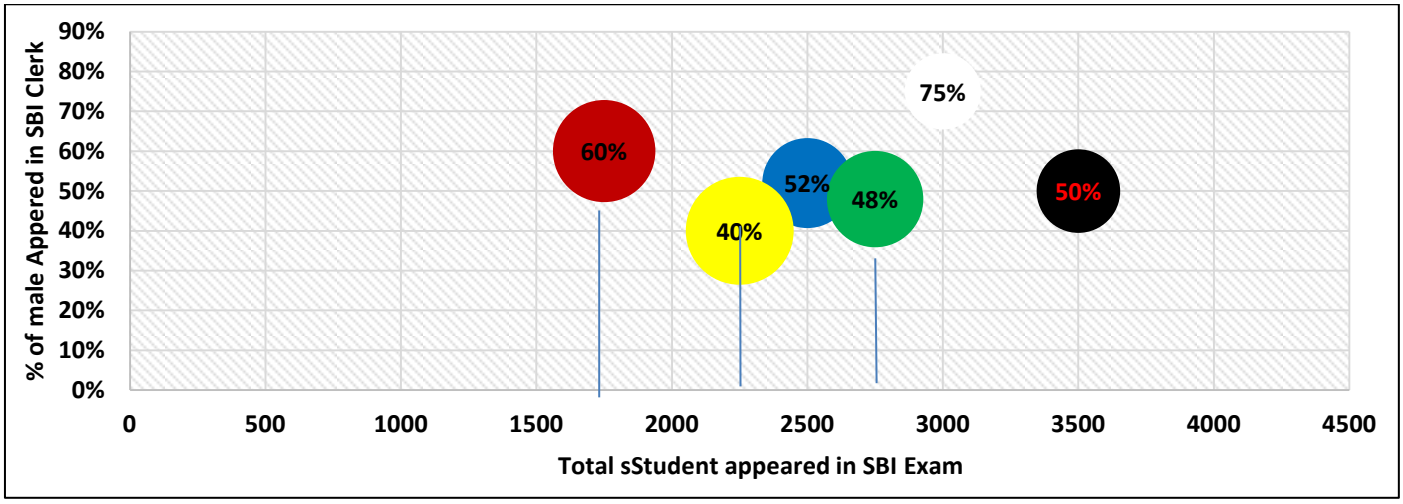
d) 1434

e) None of these

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

Following Bubble chart show the % of Male student appeared in SBI Clerk Exam out of total number of student appeared in SBI Clerk Exam from Six different States (UP, MP, HP, UK, Bihar and Punjab). Each state is assigned different color bubble i.e. Red, blue, Black, yellow, green and White, Which represent % of Male student appeared in SBI Clerk exam?

Bubble Chart DI for All Upcoming Bank Clerk Mains Exams



Note – Total number of student appeared in Exam = Male appeared + Female appeared in SBI clerk Exam

- State - UP, MP, HP, UK, Bihar and Punjab has assigned Red, Blue, Black, Yellow, Green and White respectively

- % of Student (Male + Female) pass in SBI clerk exam from state UP, MP, HP, UK, Bihar and Punjab is 40, 30, 40, 50, 60 and 45 respectively.

16. Find the difference between average number of Male who appeared in SBI Clerk from state UK, Bihar and Punjab to the average number of male from UP, MP and HP who appeared in SBI Clerk exam?

a) 465

b) 356

c) 290

d) 255

e) None of the above

17. Total number of Female who pass the exam of SBI Clerk exam from MP is 50% more than the Male who pass the exam from same state, while total number of male who pass the exam from MP and Punjab is 1000. Then find the ratio between Male who pass the Exam form MP to Male who pass the exam form Punjab?

a) 20:11

b) 3:7

c) 8:7

d) 25:12

e) None of these

18. Find the total number of student who pass the exam of SBI Clerk exam from all the state together?

a) 5075

b) 7050

c) 7075

d) 7560

e) Can't be determined

19. Total number of male who pass the exam from HP and Bihar is 1550, while twice the numbers of female who pass from the HP is 1500. Then find the Male from HP and Female from Bihar who pass the exam is what % of Male form Bihar and Female from HP, who pass the exam of SBI clerk exam?

a) 44%

b) 64%

c) 78 %

d) 45%

e) None of these

20. Total number of student who appeared in the SBI Clerk exam from UK and UP is what % more or less than the total number of student who appeared in SBI Clerk exam from MP and HP together?

a) 55.55%

b) 44.44%

c) 11.11%

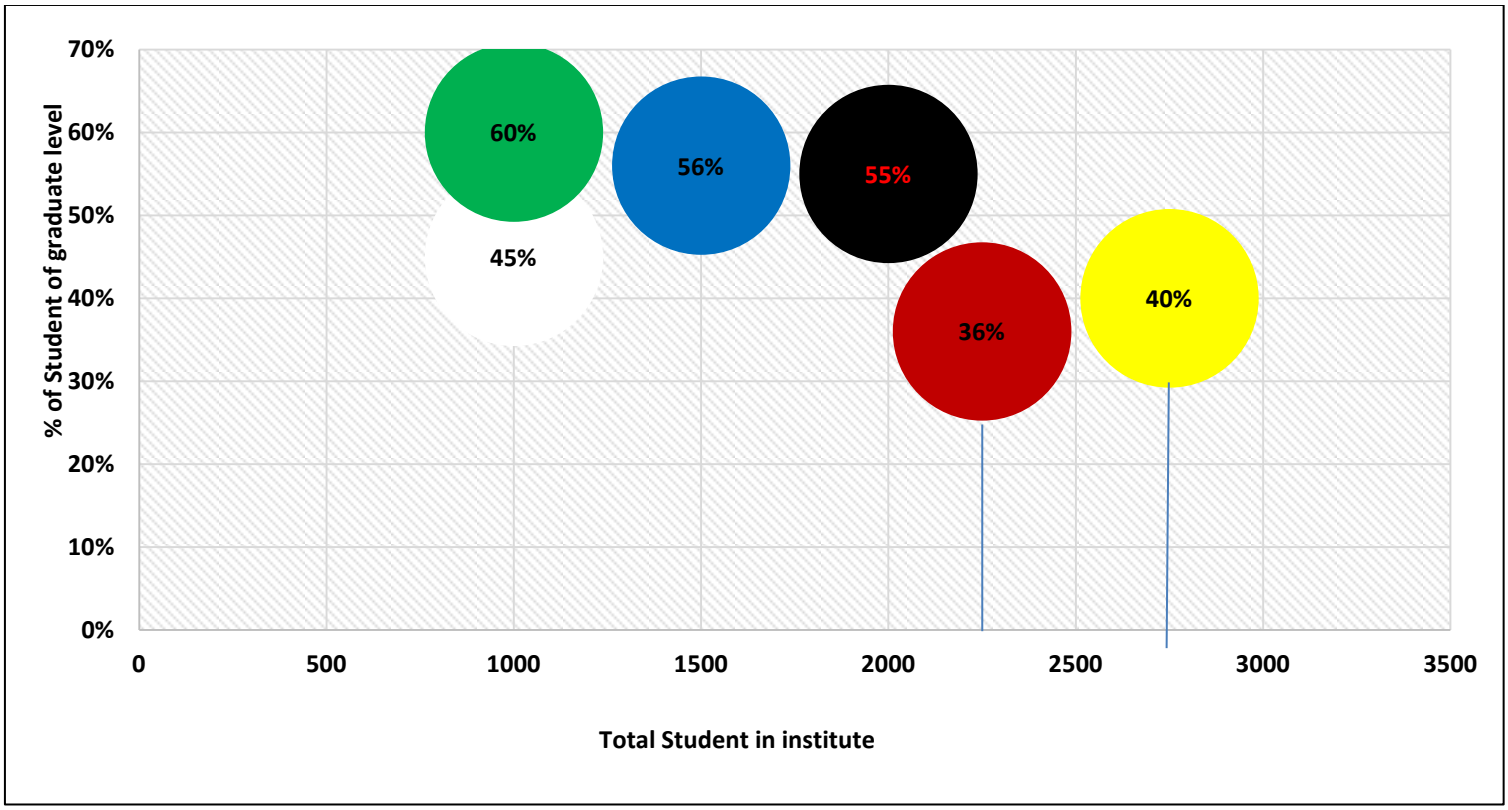
d) 22.22%

e) None of these

Bubble Chart DI for All Upcoming Bank Clerk Mains Exams

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

Following Bubble chart show the % of Total number of student of graduate level from six different institutes (M, N, O, P, Q and R). Each institute is assigned different color bubble i.e. Red, blue, Black, Yellow, green and White, Which represent % of Total number of student of graduate level from six different institute.



Note – Total number of student in institute = Student of graduate level + student of Post-graduate level

- State - M, N, O, P, Q and R has assigned Red, Blue, Black, Yellow, Green and White respectively

21. What is the total number of graduate level student from R and post-graduate level student from M?

a) 1890

b) 1490

c) 1500

d) 1580

e) None of these

22. What is the ratio between the number of students studying at post-graduate from institute O and T. It is also know that total number of postgraduate from T is 220 more than average number of graduate from P and Q together?

a) 128:54

b) 90:107

c) 148:52

d) 240:43

e) None of these

23. How many students of institutes of M, O and Q are studying in Post-graduate level?

a) 2740

b) 2840

c) 2250

d) 2570

e) 2140

24. Post-graduate male student from institute from M and O is what % more or less than the total number of graduated student from institute R and N. It is also known that Male from M and O are 25% and 55% of total number of post-graduate students from same city?

a) 46.26%

b) 26.67%

c) 35.67%

d) 33.72%

e) None of these

25. Total number of student in Post-graduate is how much more or less than the total number of graduate student from the entire institute together?

a) 1448

b) 1528

c) 700

d) 1445

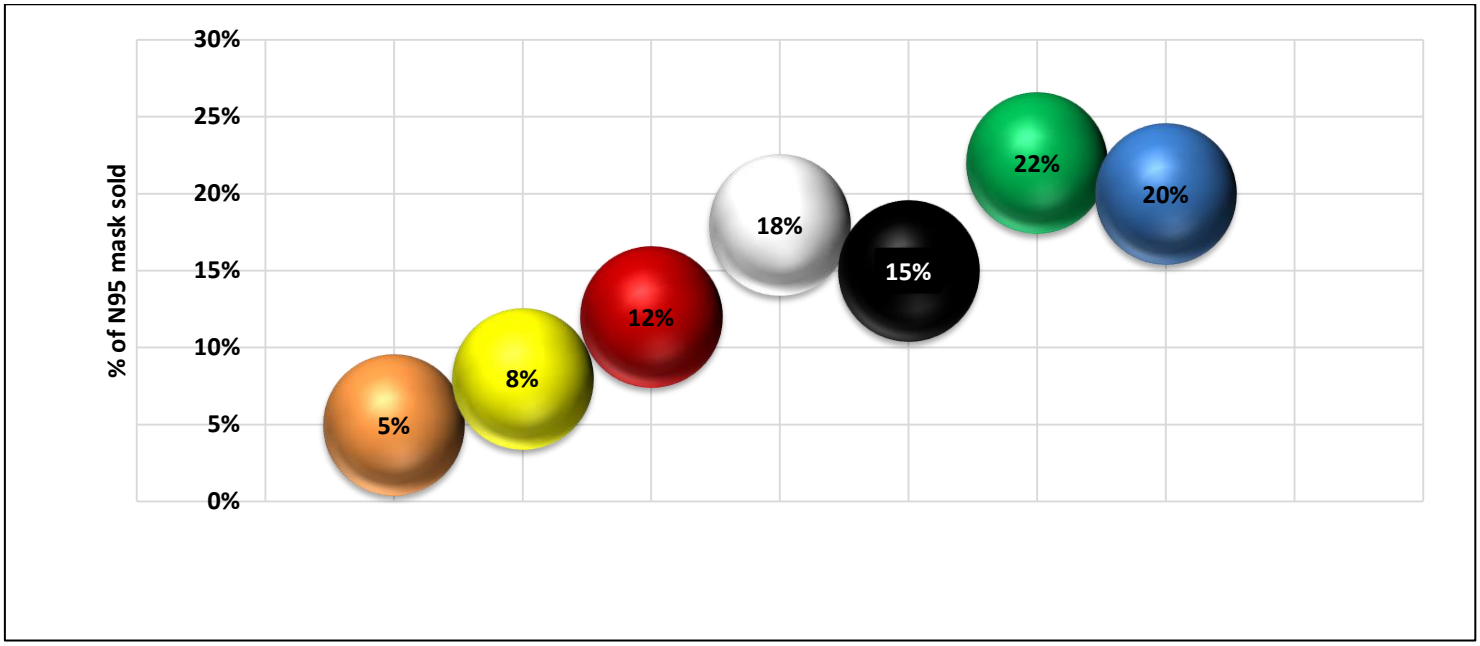
e) None of these

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

Following Bubble chart show the % of Total number of N95 mask sold by seven different sellers (M, N, O, P, Q, R and S) in 2019. In Bubble chart each seller has assigned different color bubble i.e. Red, blue, Black, Yellow, Orange, green and White, Which represent % of Total number of N95 mask sold by seven different sellers

Total number of N95 mask sold by all seven sellers in both the year 2019 = 160000.

Bubble Chart DI for All Upcoming Bank Clerk Mains Exams



Note – seller M, N, O, P, Q, R and S has assigned Yellow, Red, White, Black, Green, Blue and Orange respectively.

-Number of N95 mask sold by each seller in 2020 is 800 more than the previous year.

26. What is the respective ratio of number of mask sold by N in both years 2019 and 2020 taken together and number of mask sold by Q and R in 2020 together?

a) 49:86

b) 21:87

c) 25:87

d) 45:87

e) None of these

27. What is the average number of N95 mask sold by M, N, O and P taken together in 2019?

a) 12200

b) 21200

c) 19100

d) 11700

e) 15700

28. Number of N95 mask sold by S and P together in 2020 is approximately what percentage of number of N95 mask sold by M and N together in 2019?

a) 112%

b) 142%

c) 105%

d) 150%

e) 125%

29. If M and Q sold each mask at Rs. 25 and Rs. 18 respectively, then what is the difference between the revenue of M and Q on selling mask in 2019?

a) 132050

b) 155400

c) 133600

d) 313600

e) 122500

30. What is average number of N95 Mask sold by Q, R and S in 2020 together?

a) 22520

b) 21152

c) 32157

d) 22465

e) 25867

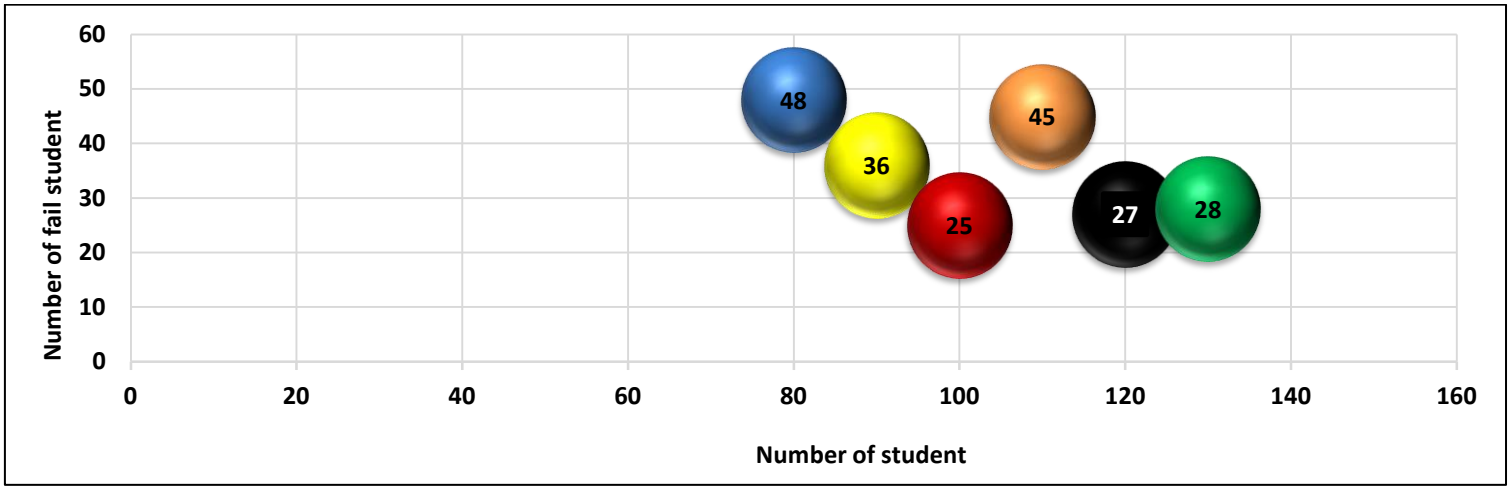
Bubble Chart DI for All Upcoming Bank Clerk Mains Exams

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

In the Annual Exam of Punjab University, total number of student is divided into six zones. Name of zones were on the name of colors –Blue Zone, Yellow Zone, Green Zone, Red Zone, Orange Zone, Black Zone as shown below in bubble chart. The bubble chart below shows numbers of total number of student appeared in the exam in various zone and the number of student fail in various zones.

The number of fail student is shown on each bubble for the corresponding zone. The numbers of total student are represented by small colored circles (Blue, Green, Yellow, Orange, Red and Black) given on the x-axis.

110 120 80 130 90 100



31. Total number of student who passes the exam from red and yellow zone is how much % more or less than the total number of student who passes from orange and green zone together?

a) 22.75 % less

b) 21.10 % less

c) 25.25% more

d) 31.25% more

e) None of these

32. Find the average number of student who passes the exam from all the give zone is how much more or less than the total number of student who fails from green and yellow zone together?

a) 37/6

b) 26/7

c) 29/7

d) 37/9

e) 36/13

33. What is the ratio of total number of student who fails from black and yellow zone to twice the pass student from orange and green zone?

a) 63:334

b) 36:343

c) 333:31

d) 123:23

e) None of these

34. If average mark scored by each pass student and failed student from green zone is 55 and 35 respectively then find out total combined average marks of green zone?

a) 51.70

b) 50.70

c) 49.70

d) 48.70

e) 45.70

35. Total number of female who pass the exam from all the zone is 580 less than the twice of pass student from the entire zone. Then find the ratio of male who pass and female who pass the exam from the entire given zone together?

a) 152:159

b) 262:159

c) 494:361

d) 514:141

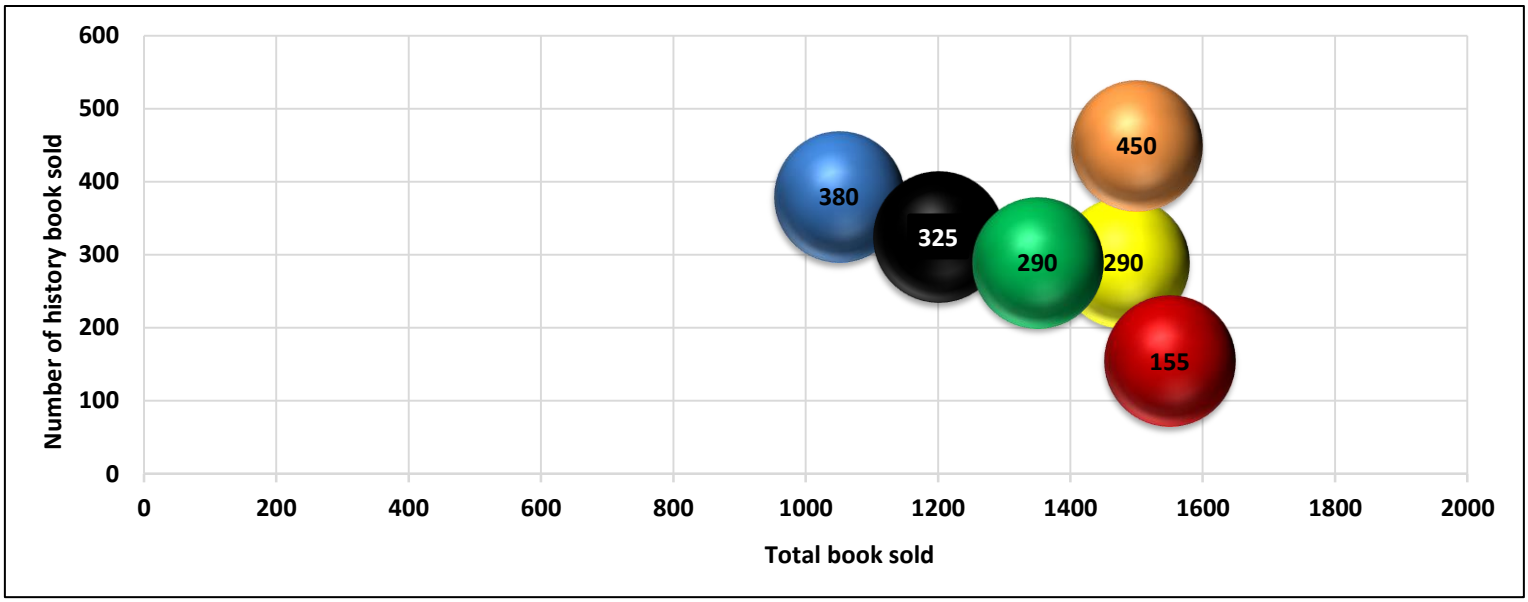
e) None of the above

Bubble Chart DI for All Upcoming Bank Clerk Mains Exams

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

Annual Book Exhibition is organized in Delhi at different location. All the location is divided into six zones. Name of zones were on the name of colors –Blue Zone, Yellow Zone, Green Zone, Red Zone, Orange Zone, Black Zone as shown below in bubble chart. The bubble chart below shows numbers of total number of book sold in various zone and the number of history book sold in various zones.

The number of history book sold is shown on each bubble for the corresponding zone. The numbers of total book sold are represented by small colored circles (Blue, Green, Yellow, Orange, Red and Black) given on the x-axis.



Note – Total number of book sold by each zone = Total number of History book + Cultural book + Spiritual book sold

36. Total number of Spiritual book sold by orange zone and black zone together is 25 more than the total number of cultural book sold by same zone. Then find out the difference between total spiritual book sold by orange and black Zone to total history book sold by yellow and green zone?

a) 395

b) 225

c) 125

d) 130

e) None of these

37. Find the average number of Cultural book sold by all zone except red zone, if 10% of the book sold from each zone is spiritual book?

a) 928.4

b) 535.4

c) 837.4

d) 722.6

e) 855.5

38. Average number of history book sold by green, yellow and black zone is how much more or less than the average number of other than history book sold by red and orange zone?

a) 81.74% less

b) 74.81% less

c) 71.84% less

d) 75.32% less

e) Can't be determined

39. Total number of spiritual book sold by red zone is 525, which is 75 less than the same book sold by green zone then find the cultural book sold by green zone is how much percentage more or less than the cultural book sold by red zone?

a) 47.13%

b) 47.15%

c) 47.18%

d) 47.22%

e) 47.31%

40. Total number of history book sold from all the zone together is what % of total number of cultural and spiritual book sold from green, yellow and red zone together?

a) 25.80%

b) 25.30%

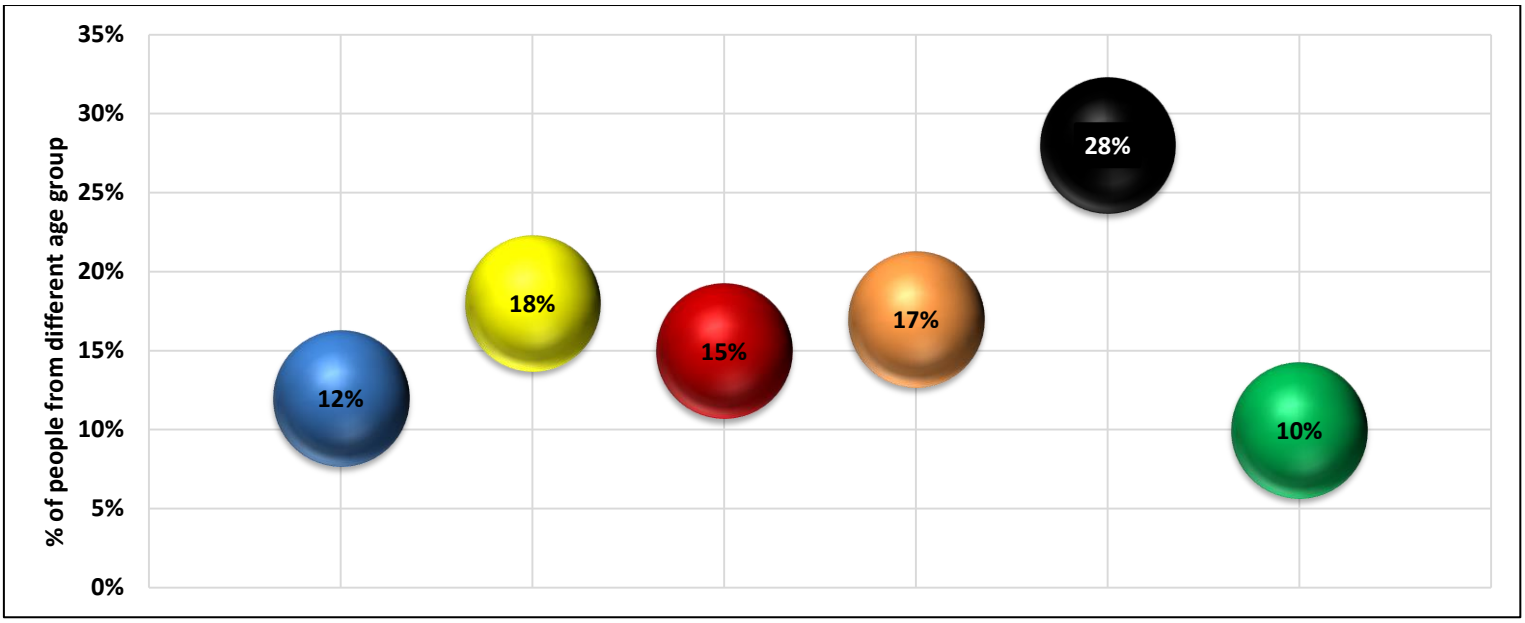
c) 22.40%

d) 31.30%

e) None of these

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

Following Bubble chart show the number of people from different age group (>10, 20<=10, 30<=20, 40<=30, 50<=40 and 50 or above) of a town. Each age group is assigned different color bubble i.e. Red, blue, Black, Yellow, green and Orange, Which represent % of people out of total people in town from different age group.



Note - age group >10, 20<=10, 30<=20, 40<=30, 50<=40 and 50 or above have assigned color bubble i.e. Red, blue, Black, Yellow, green and Orange respectively.

Note – Total people from town = 42000

41. Find the difference between the people of age group of more than or equal to 30 year to people of age group of less than 20 year?

a) 7560

b) 5670

c) 2560

d) 4560

e) None of these

42. People of age group of 10 year or more but less than 30 year is what % of people of age group of 30 year or more age?

a) 72.25%

b) 82.45%

c) 88.88%

d) 80.25%

e) None of these

43. Salary income of age group of 40 year or more is 25000 each person each month then find out total income for the fortnight period for the age group of 40 year or more? (Assume only 30 day in a month)

a) 1.425 Crore

b) 14.25 Crore

c) 13.23 Crore

d) 1.23 Crore

e) Can't be determined

44. In the age group of 10 to 30 year (both inclusive) ratio of male to female is 3:2 then find out the difference between male and female from the same age group?

a) 2050

b) 1140

c) Can't be determined

d) 1144

e) None of above

45. How many people are of more than or equal to 50 year of age and less than 10 year of age from the town?

a) 13140

b) 11550

c) 12440

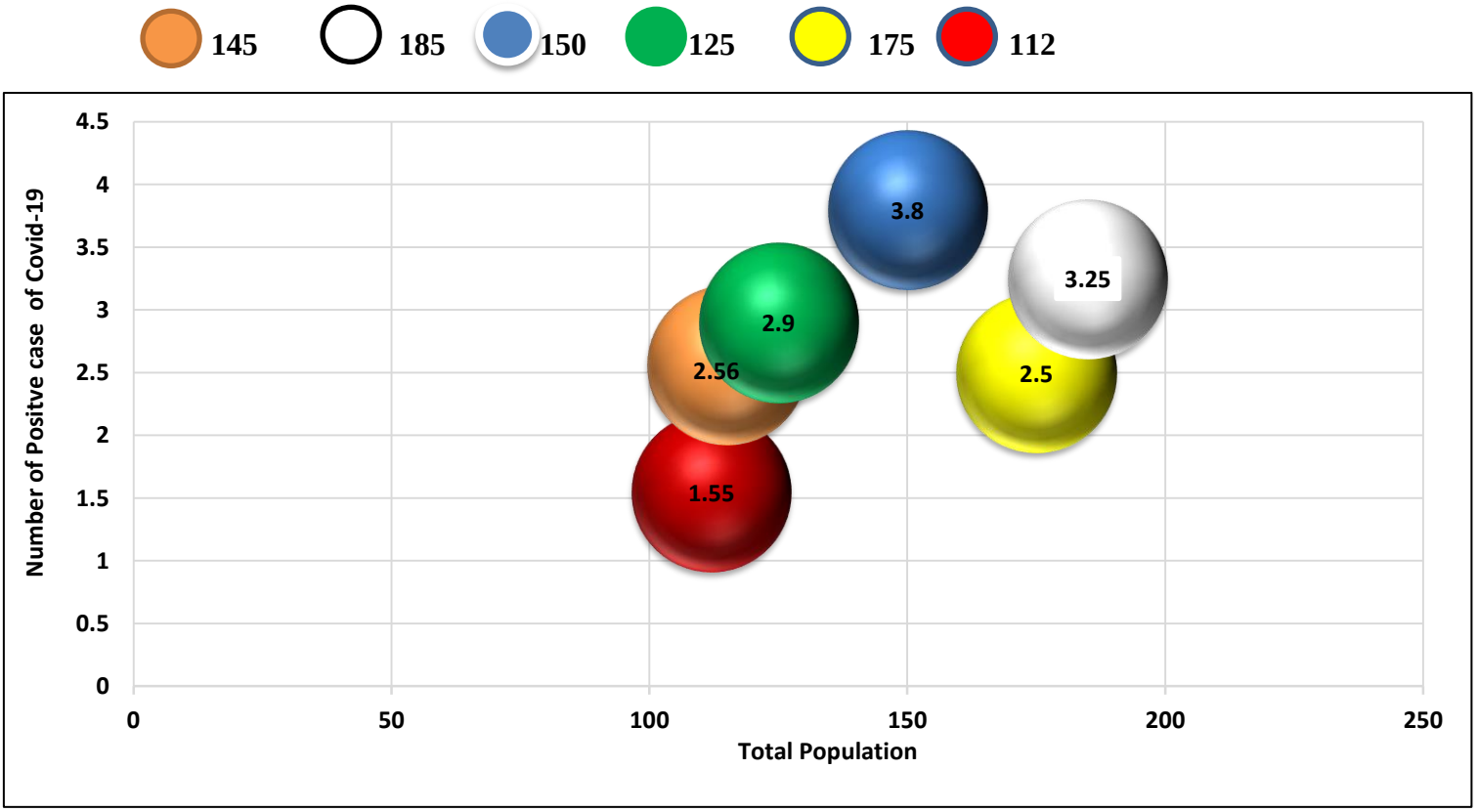
d) 13440

e) None of these

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

In the ongoing Covid-19 Pandemic, Government of India has a challenge to save their people from it, along with that it also insured that economic activity of the country is not disturbed. For the above Government of India come up with a plan. According to the plan the whole geographical area of India is going to divide into six different Zones. Name of zones were on the name of colors –Blue Zone, Yellow Zone, Green Zone, Red Zone, Orange Zone, White Zone as shown below in bubble chart. The bubble chart below shows numbers of covid-19 cases reported positive in various Zones.

The number of Positive case of Covid-19 reported is shown on each bubble for the corresponding zone. The numbers of total Population are represented by small colored circles in zones (Blue, Green, Yellow, Orange, Red and White) given on the x-axis



Note – All the data given above is in the form of 000's

- A lock down of 15, 25, 30, 40, 60 and 90 day is imposed in zone as per minimum to maximum (increasing order) covid-19 case % reported in zone.

- Covid-19 case % = Number of Positive case of Covide-19 in a zone ÷ total population in zone × 100

46. From which zone maximum % of positive covid-19 positive case reported is highest?

a) Blue Zone

b) Yellow Zone

c) Red Zone

d) Green Zone

e) None of these

47. Average number of Covid-19 case reported positive in White and Red zone is what % more or less than the total number of Covid-19 case reported positive in green and white zone together?

a) 55.25% less

b) 85.20% less

c) 76.20% less

d) 60.97 % less

e) Can't be determined

48.What is the ratio of total covid-19 cases reported positive in zone in which 30 and 40 day lockdown is imposed to total covid-19 case reported in Zone in which 15, 25 and 90 day of lockdown imposed?

a) 550:664

b) 587:581

c) 851:581

d) 581:785

e) 785:581

49. Total number of Covid-19 case in zone in which 60 day lock down is imposed is what % of total Covid-19 case in all zones together except white zone?

a) 15.78%

b) 21.78%

c) 25.85%

d) 22.85%

e) None of these

50. Recovery rate from orange, white, blue, green, yellow, and red zone is 50, 40, 35, 25, 20 and 10 percentage respectively. Then find out total patient recovered from Covid-19 from all zones together?

a) 5750

b) 5290

c) 5850

d) 5450

e) None of these

Solutions and Detailed Explanations

Solution (1-5):

Common Explanation

Zone- village	TOTAL	MALE	FEMALE
Red - A	1000	600	400
Blue - B	1000	200	800
Black - C	2000	800	1200
Yellow - D	1500	400	1100
Green - E	2500	600	1900
White - F	1500	500	1000

1. Answer: B)

Total number of Female from B, C and E together = 800+1200+1900 = 3900

Total number of Female form D, E and F together = 1100+1900+1000=4000

Required % = ((4000-3900)/4000) *100 = 2.5%

2. Answer: C)

From village A

Income of one male = 2500

Income of one female = 3500

From village B

Income of one male = 2500*120% = 3000

Income of one female = 3500*65%= 2275

ATQ,

Required difference = (400*3500+800*2275) - (600*2500+200*3000)

= (1400000+1820000) - (1500000+600000)

= 1120000rs

3. Answer: A)

Total male form all the zone = 600+200+800+400+600+500=3100

Total female from all the zone = 400+800+1100+1200+1900+1000= 6400

Required ratio = 3100:6400 = 31:64

4. Answer: D)

From Village D

Male of age less than 20 year = 400*80% = 320

Female of age 20 year or more = 1100*70% = 770

Required ratio = 320:770 = 32:77

5. Answer: D)

$ = 1900

 # = 1000

Required answer = 20% * 1900 + 55% * 1000 = 380+550 = 930

Solution(6-10):

Common Explanation:

Seller – Color Bauble	Total stock of book	Total book sold	Total unsold book
P – Red	1500	200	1300
Q- Blue	500	300	200
R – Black	2500	700	1800
S- Yellow	1000	500	500
T – Green	3000	600	2400
U – White	2000	800	1200

6. Answer: A)

Highest number of book sold by a seller = 800

Lowest number of book sold by a seller = 200

Required % = 800-200/200 * 100 = 300% more

7. Answer: D)

Total revenue generated by P and Q together by selling the book = (200*12 + 300*15) = 6900

Total revenue generated by Q and R together by selling the book = (300*15+700*18) = 17100

Required ratio = 6900:17100 = 23:57

8. Answer: A)

Total number of unsold book form all the seller = 1300+200+1800+500+2400+1200 = 7400

Total sock of book from all the seller = 1500+500+2500+1000+3000+2000 = 10500

Required percentage = 7400/10500 * 100 = 70.47%

9. Answer: C)

Price of one book with seller T= 20/80 *100 = 25

Price of one book with seller U = 20/150 * 100 = 40/3

ATQ,

Total revenue generated by E and D = (25* 1/2 *2400) + (40/3 * 1/2 * 1200) = 38000

(Note both the seller is selling their unsold stock at half the actual price)

10. Answer: D)

Total book sold by Q, R and S is = 300+700+500 = 1500

Total book sold unsold by P, U and T = 1300+2400+1200 = 4900

Required % = 1500 / 4900 *100 = 30.61%

Solution (11-15):

Common Explanation

Cities - Color	TOTAL POPULATION	Literate population	Illiterate Population
P – RED	1500	1500*52% = 780	1500-780 = 720
Q – BLUE	1750	1750*60% = 1050	1750-1050=700
R – BLACK	2500	2500*60% = 1500	2500-1500=1000
S – YELLOW	2250	2250*48% = 1080	2250-1080 = 1170
T – GREEN	3000	3000*50% = 1500	3000-1500 = 1500
U - WHITE	2000	2000*40% = 800	2000-800 = 1200

11. Answer: D)

Total number of literate population = 780+1050+1500+1080+1500+ 800 = 6710

Total number of illiterate population = 720+700+1000+1170+1500+1200 = 6290

Required ratio = 6710: 6290 = 671:629

12. Answer: E)

Given that

Illiterate male form city R and illiterate female from T is 500 and 500 respectively

ATQ,

From R

We don’t know about literate female

So, we can’t find the literate male also (we need literate female to find literate male)

So, answer is option number E – Can’t be determined

13. Answer: B)

From U

Male = 2000*9/20 = 900

Female = 2000*11/20 = 1100

Give that,

Illiterate female = 700

ATQ,

Literate female = Total Female – illiterate female = 1100-700=400

Literate female = Total literate population – Literate female = 800-400=400

Required % = 400/400 * 100 = 100%

14. Answer: D)

Average number of illiterate population form all the city together = 720+700+1000+1170+1500+1200 = 6290/6

Total literate population from R, S and T = 1500+1080+1500 = 4080

Required percentage = (6290/6) / 4080 *100 = 25.69%

15. Answer: D)

ATQ,

Let total male from U = 6x

Then, Total male from R = 5x

Let total female from U = 8y

Then, Total female form R = 15y

Given that total population from U = 2000

And total population from R = 2500

Then,

6x+8y = 2000 ---------- (1)

5x + 15y = 2500 --------- (2)

By solving the above equation

X = 200

Y = 100

Male from R = 5x = 5*200 = 1000

Female from U = 8y = 8*100=800

Total male from R and female from U =1000+800 = 1800

Total literate from P and Q = 780+1050 = 1830

Require difference = 1800 – 1/5*1830 = 1434

Solution (16-20):

Common Explanation:

State – Color Bubble	Total student appeared	Male appeared	Female appeared	Pass student (male + Female)
UP – Red	1750	1750*60% = 1050	1750-1050 = 700	1750 * 40% = 700
MP – Blue	2500	2500*52% = 1300	2500-1300 = 1200	2500*30% = 750
HP – Black	3500	3500*50% = 1750	3500-1750 = 1750	3500*40% = 1400
UK – Yellow	2250	2250*40% = 900	2250-900 = 1350	2250*50% = 1225
Bihar – green	2750	2750*48% = 1320	2750-1320 = 1430	2750*60% = 1650
Punjab – White	3000	3000*75% = 2250	3000-2250 = 750	3000*45% = 1350

16. Answer: E)

Average number of Male who appeared in SBI Clerk from state UK, Bihar and Punjab = (900+1320+2250)/3 = 1490

Average number of male from UP, MP and HP who appeared in SBI Clerk exam = (1050+1300+1750)/3 = 4100/3

Required difference = 1490 – 4100/3 = 370/3

17. Answer: B)

Female who pass the exam from MP = 150/100 * Male who pass the exam from MP

Accordingly,

Ratio of pass Female to pass Male = 3:2

Female who pass from MP = 750*3/5 = 450

Male who pass from MP = 750*2/5 = 300

ATQ,

Male who pass from Punjab = 1000-300 = 700

Required ratio = 300:700 = 3:7

18. Answer: C)

Total number of student who pass the exam of SBI clerk from all the state= 700+750+1400+1225+ 1650+1350 = 7075

19. Answer: E)

Given that,

Total number of male who pass from HP and Bihar = 1550

Let male who pass From HP = X

Then Male who pass from Bihar = 1550 – X

Also,

Female from HP who pass the exam = 1500/2 = 750

Accordingly

Total pass from HP = 1400

Male who pass from HP (X) = 1400 – 750 = 650

And

Male who pass from Bihar = 1550-650 = 900

Total Pass from Bihar = 1650

Female who pass from Bihar = 1650 – 900 = 750

Male from HP and Female from Bihar who pass the exam = 650+750 = 1400

Male form Bihar and Female from HP, who pass the exam of SBI clerk exam = 900+750 = 1650

Required percentage = 1400/1650 * 100 = 84.84%

20. Answer: E)

Total number of student who appeared in the SBI clerk exam form UK and UP = 2250+1750 = 4000

Total number of student who appeared in SBI clerk from MP and HP = 2500+3500 = 6000

Required percentage = 6000-4000/6000 *100 = 33.33%

Solution (21-25):

Common Explanation:

Institute – Color bubble	Total Student	Graduate level	Post-Graduation
M – Red	2250	2250*36% = 810	2250 – 810 = 1440
N – Blue	1500	1500*56% = 840	1500 – 840 = 660
O – Black	2000	2000 * 55% = 1100	2000 - 1100 = 900
P – Yellow	2750	2750 * 40% = 1100	2750 – 1100 = 1650
Q – Green	1000	1000*60% = 600	1000 – 600 = 400
R - White	1000	1000 * 45% = 450	1000 -450 = 550

21. Answer: A)

Total number of graduate level student from R and post-graduate level student form M = 450 + 1440 = 1890

22. Answer: B)

Total number of student studying at Post graduate from O = 900

Total number of student studying at Post graduate from T = 220 + (1100+600)/2 = 220 + 850 = 1070

Required ratio = 900: 1070 = 90:107

23. Answer: A)

Total student of institute of M, O and Q in Post-graduate level = 1440 +900+ 400 = 2740

24. Answer: D)

Post – Graduate Male from

M = 25% of 1440 = 360

O = 900 * 55% = 495

Post-Graduate male from M and O = 360 + 495 = 855

Total number of graduate student from R and N = 450+840 = 1290

Require % = 1290-855/1290 * 100 = 33.72% more

25. Answer: C)

Total student in post – Graduate from all the institute = 1440+900+660+1650+400+550 = 5600

Total number of graduate student from all the institute together = 810+840+1100+1100+600+450 = 4900

Required difference = 5600-4900 = 700

Solution (26-30):

Common Explanation

Sellers – Colour Bauble	% of N95 mask sold by each seller out of total mask sold (2019)
M – Yellow	8%
N- Red	12%
O – White	18%
P – Black	15%
Q – Green	22%
R – Blue	20%
S – Orange	5%

26. Answer: A)

Mask sold by N

In 2019 = 160000*12% = 19200

In 2020 = 19200+800 = 20000

Mask sold by Q

In 2019 = 160000*22% = 35200

In 2020 = 35200 +800 = 36000

Mask sold by R

In 2019 = 160000*20% = 32000

In 2020 = 32000 + 800 = 32800

Required ratio = (19200+20000): (36000+32800) = 39200: 68800 = 49:86

27. Answer: B)

Average number of N95 mask sold by M, N, O and P in 2019 = 160000 * (8%+12%+18%+15%)/4 = 21200

28. Answer: C)

N95 mask sold by S in 2020

= 160000*5% + 800 = 8800

N95 mask sold by P in 2020

= 160000 * 15% + 800 = 24800

Number of mask sold by S and P in 2020 = 8800+24800 = 33600

Number of N95 Mask sold by M and N together in 2019 = 160000 * (8%+12%) = 32000

Required Percentage = 33600/32000 * 100 = 105%

29. Answer: D)

Difference between revenue generated by M and Q in 2019 = (160000*22%*18) - (160000*8% * 25) = 313600

30. Answer: E)

N95 mask sold by Q in 2020 = 160000*22% + 800 = 36000

N95 mask sold by R in 2020 = 160000*20% + 800 = 32800

N95 mask sold by S in 2020 = 160000*5% + 800 = 8800

Required average = (36000+32800+8800) / 3 = 25867 (Approx.)

Solution (31-35):

Common Explanation

Zone	Total student	Fail student	Pass student
Blue zone	80	48	80 – 48 = 32
Yellow Zone	90	36	90-36 = 54
Green zone	130	28	130 – 28 = 102
Red zone	100	25	100-25 = 75
Orange Zone	110	45	110 – 45 = 65
Black zone	120	27	120 – 27 = 93

31. Answer: A)

Total number of student who pass the exam form red and yellow zone = 75+54 = 129

Total number of student who pass from orange and green zone = 65+102 = 167

Required % = 129-167/167 * 100 = 22.75% less

32. Answer: A)

Average number of student who pass the exam from all the zone = (32+54+102+75+65+93)/ 6 = 421/6

Total number of student who fails from Green and yellow zone = 28+36 = 64

Required answer = 421/6 – 64 = 37/6

33. Answer: A)

Total student who fail from black and yellow zone = 27+36 = 63

Twice the pass student from orange and green zone = 2*(65+102) = 334

Required ratio = 63:334

34. Answer: B)

From green zone Total marks by all student = (28*35) + (102*55) = 6590

Combined average marks form green zone (Total marks from green zone/total student from green zone) = 6590/130 = 50.70 (Approx.)

35. Answer: B)

Female who pass the exam from all the zone = 2*(32+54+102+75+65+93) -580 = 842 – 580 = 262

Male who pass from all the zone = total pass student from all zone – total female pass from all zone = 32+54+102+75+65+93 – 262 = 159

Required ratio = 262: 159

Solution (36-40):

Common Explanation

Zone	Total book sold	History book sold	Cultural + Spiritual
Orange	1500	450	1050
Black	1200	325	875
Blue	1050	380	670
Green	1350	290	1060
Yellow	1480	290	1190
Red	1550	155	1395

36. Answer: A)

Spiritual book sold by Orange and Black zone = 25 + Total number of Cultural book sold orange and black Zone

(Given that total number of spiritual and cultural book sold by orange and Black zone = 1050 + 875 = 1925)

Let,

Total number of spiritual book sold orange and black Zone = X

And,

Spiritual book sold by Orange and Black zone = X+25

Accordingly,

X+X+25 = 1925

X= 950

Required difference = 975 – (290+290) = 395

37. Answer: C)

Spiritual book sold by

Orange – 1500 * 10% = 150

Black – 1200 *10% = 120

Blue – 1050*10% = 105

Green – 1350 *10% = 135

Yellow – 1480*10% = 148

Cultural Book sold by

Orange – 1500 – 450 -150 = 900

Black – 1200- 325 – 120 = 755

Blue – 1050 – 380 – 105 = 565

Green – 1350 – 290 – 135 = 925

Yellow – 1480 – 290 – 148 = 1042

Average number of cultural book sold by all zone (except red zone) = 1/5 * (900+755+565+925+1042) = 837.4

38. Answer: D)

Average number of history book sold by Green, Yellow and Black zone = (290+290+325)/3 = 905/3 = 301.66

Average number of other than history book sold by Red and orange zone = (1050+1395)/2 = 2445/2 = 1222.5

Required % = 301.66 – 1222.5 / 1222.5 * 100 = 75.32% less

39. Answer: A)

Spiritual book sold by Red zone = 525 (Given)

Cultural book sold by Red zone = 1550-155-525 = 870

Spiritual book sold by Green zone = 525+75 = 600 (ATQ)

Cultural book sold by Green zone = 1350-290-600 = 460

Required % = 460-870/870*100 = 47.13%

40. Answer: E)

Total number of history book sold by all zone = 450+325+380+290+290+155 = 1890

Total number of cultural and spiritual book sold by green, Yellow and red zone together = 1060+1190+1395 = 3645

Required percentage = 1890/3645 * 100 = 51.85%

Solution (41-45):

Common Explanation

Age Group	% of people out of total people
>10 (Red)	15%
20<=10 (Blue)	12%
30<=20 (Black)	28%
40<=30 (Yellow)	18%
50<=40 (Green)	10%
50 or above (Orange)	17%

41. Answer: A)

People of age group of more than or equal to 30 year = 42000*(18%+10%+17%) = 18900

People of age group of less than 20 year = 42000 * (12%+15%) = 42000* 27% = 11340

Required difference = 18900 – 11340 = 7560

42. Answer: C)

People of age group of 10 Years or more but less than 30 year = 42000*(12%+28%) = 16800

People of age group of 30 year or more age = 42000*(18%+10%+17%) = 18900

Required percentage = 16800/18900 *100 = 88.88%

43. Answer: C)

Total income for the fortnight period for the age group of 40 Year or more

= (42000 * (10%+17%) * 25000* 14)/30 = 132300000 or 13.23 crore

44. Answer: C)

In the age group of 10 to 30 (both inclusive) = can't be determined

(As we don't know about exact number of people from age group of 30)

So, Answer is can't be determined

45. Answer: D)

People of age group of More than or equal to 50 Year = 42000 * 17% = 7140

People of age group of less than 10 year =42000* 15% =6300

Required sum = 7140 +6300 = 13440

Solution (46-50):

Common Explanation

46. Answer: A)

% of Covid-19 case in

Orange Zone = 2.56/145 *100 = 1.765%

White Zone = 3.25/185*100 = 1.756%

Blue Zone = 3.8/150 *100 = 2.533%

Green Zone = 2.9/125*100 = 2.320%

Yellow Zone = 2.5/175 * 100 = 1.428%

Red zone = 1.55/112*100 = 1.398%

Required answer = Blue zone = 2.533%

47. Answer: D)

Average number of Covid-19 case reported positive in White and Red zone = (3.25+1.55) /2 *1000 = 2400

Total number of covid-19 cases reported positive form green and white zone = (2.9+3.25) * 1000 = 6150

Required % = 2400-6150 / 6150 * 100 = 60.97% less

48. Answer: D)

Lock Down imposed on the basis of Covid-19 Positive Case % (In increasing order)

% of Covid-19 case in

Orange Zone = 2.56/145 *100 = 1.765% (40 days lockdown)

White Zone = 3.25/185*100 = 1.756% (30 days lockdown)

Blue Zone = 3.8/150 *100 = 2.533% (90 days lockdown)

Green Zone = 2.9/125*100 = 2.320% (60 days lockdown)

Yellow Zone = 2.5/175 * 100 = 1.428% (25 days lockdown)

Red zone = 1.55/112*100 = 1.398% (15 days lockdown)

ATQ,

Total covid-19 cases reported positive in zone in which 30 and 40 day lockdown = (White zone + Orange zone) = (3.25+2.56) * 1000 = 5810

Total covid-19 case reported in Zone in which 15, 25 and 90 day of lockdown imposed= (Red zone + Yellow Zone + Blue zone) = (1.55+2.5+3.8) *1000 = 7850

Required ratio = 5810: 7850 = 581:785

49. Answer: B)

Lock Down imposed on the basis of Covid-19 Positive Case % (In increasing order)

% of Covid-19 case in

Orange Zone = 2.56/145 *100 = 1.765% (40 days lockdown)

White Zone = 3.25/185*100 = 1.756% (30 days lockdown)

Blue Zone = 3.8/150 *100 = 2.533% (90 days lockdown)

Green Zone = 2.9/125*100 = 2.320% (60 days lockdown)

Yellow Zone = 2.5/175 * 100 = 1.428% (25 days lockdown)

Red zone = 1.55/112*100 = 1.398% (15 days lockdown)

Total number of Covid-19 case in zone in which 60 day lock down is imposed = Green Zone = 2.9*1000 = 2900

Total Covid-19 case in all zone together except white zone = (2.56+3.8+2.9+2.5+1.55) * 1000 = 13310

Required % = 2900/13310 *100 = 21.78%

50. Answer: B)

Recover patient form

Orange zone = 2.56 *1000 * 50 % = 1280

White Zone = 3.25 * 1000 * 40% = 1300

Blue Zone = 3.8 * 1000 * 35% = 1330

Green zone = 2.9*1000*25% = 725

Yellow Zone = 2.5 * 1000 * 20% = 500

Red Zone = 1.55 * 1000 * 10% = 155

Total Patient recovered from Covid-19 = 1280+1300+1330+725+500+155 = 5290