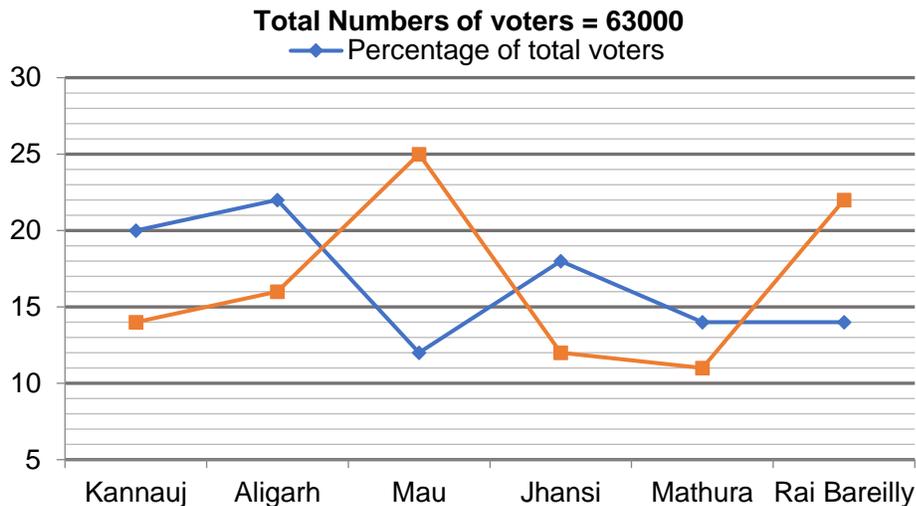


Quiz Date: 19th August 2020

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

Line graph shows the percentage distribution of total voters in 6 different cities and percentage distribution of female voters in these cities



Q1. The number of male voters in Jhansi is approximately what percent of the number of male voters in Aligarh?

- (a) 81%
- (b) 86%
- (c) 68 %
- (d) 77%
- (e) 92 %

Q2. What is the respective ratio of the number of male voters in Mau to number of female voters in Rai Bareilly?

- (a) 5 : 2
- (b) 7 : 12
- (c) 3 : 2
- (d) 225 : 79
- (e) 225 : 77

Q3. The number of female voters in Mau is approximately what percent less than the number of male voters in Mathura?

- (a) 72%
- (b) 76%
- (c) 85 %
- (d) 80%
- (e) 82%

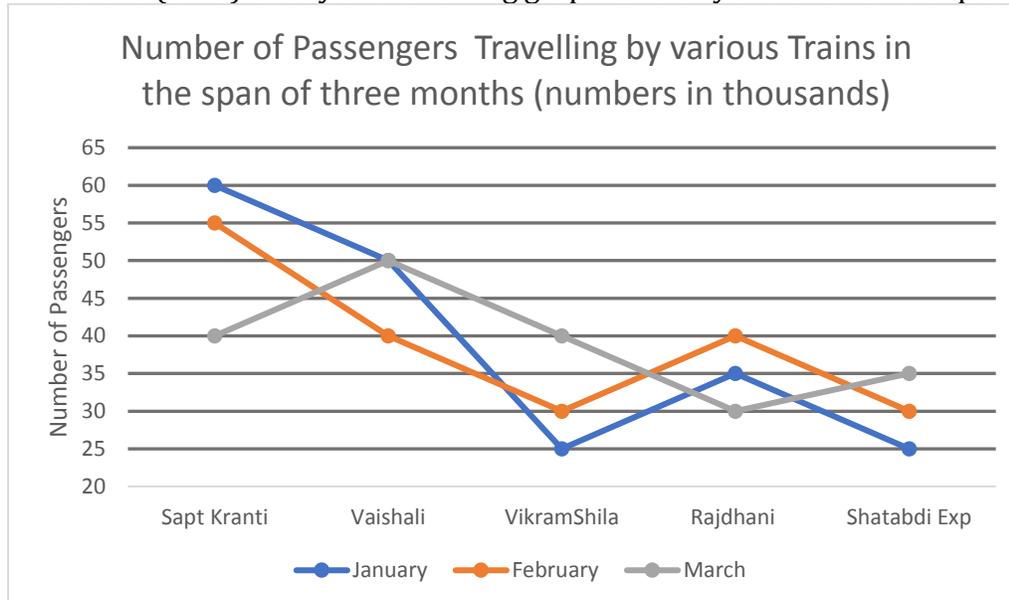
Q4. The number of female voters in Jhansi is approximately what percent of the total number of voters in Rai Bareilly?

- (a) 15 %
- (b) 27%
- (c) 18 %
- (d) 25%
- (e) 22%

Q5. What is the approximate difference between the number of male voters in Kannauj and number of female voters in Mathura?

- (a) 9755
- (b) 9710
- (c) 9866
- (d) 9810
- (e) 8990

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



Q6. What is the respective ratio of the total number of passengers travelling by Saptkranti to the total number of passengers travelling by Rajdhani during the Span of three months?

- (a) 31 : 22
- (b) 31 : 21
- (c) 31 : 23
- (d) 23 : 31
- (e) 31 : 18

Q7. The number of passengers travelling by VikramShila in the month of February are approximately what percent of the passengers travelling by other trains in the same month?

- (a) 18 %

- (b) 20 %
- (c) 22 %
- (d) 25 %
- (e) 15 %

Q8. Which of the following trains has the least number of passengers in the Span of three months?

- (a) Vaishali
- (b) Saptkranti
- (c) Rajdhani
- (d) Shatabdi
- (e) Vikramshila

Q9. What is the sum of average number of passengers travelling in the month of January and average number of passengers travelling in the months of February by all the trains together?

- (a) 80 thousand
- (b) 92 thousand
- (c) 78 thousand
- (d) 42 thousand
- (e) 84 thousand

Q10. What is the total no. of passengers travelling by various trains in the Span of three months?

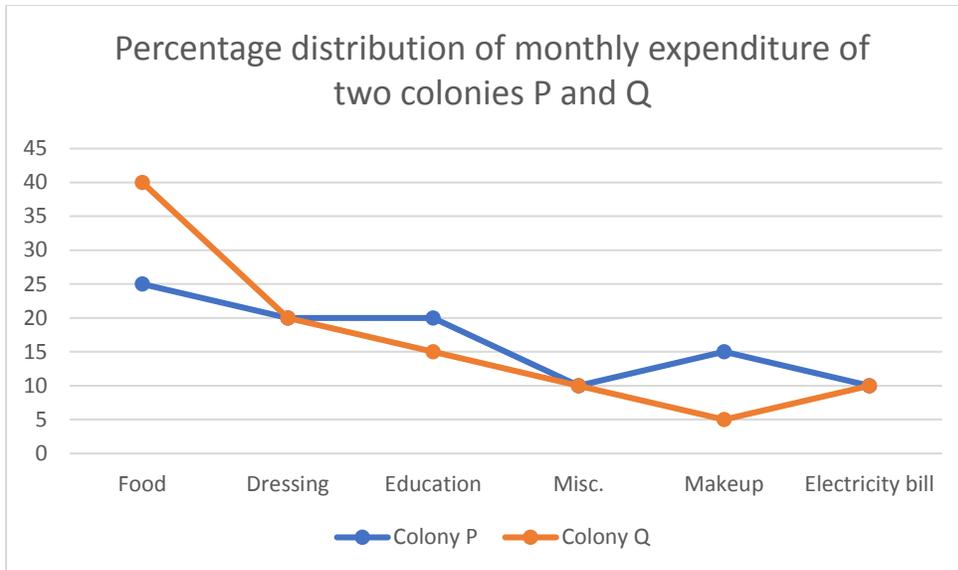
- (a) 585000
- (b) 580000
- (c) 590000
- (d) 584000
- (e) 548000

Directions (11-15): Following bar diagram shows the monthly expenditure of two colonies i.e. P and Q on food, dressing, education, make up, electricity bill and miscellaneous (in percentage).



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Q11. What fraction of the total expenditure is spent on Education in colony P?

- (a) $2/5$
- (b) $1/5$
- (c) $3/5$
- (d) $4/5$
- (e) $5/7$

Q12. If the total annual expenditure of colony Q is Rs. 1,00,000 then money spent on dresses during the year is:

- (a) Rs. 2000
- (b) Rs. 20000
- (c) Rs. 6000
- (d) Rs. 60000
- (e) Rs. 24000

Q13. If the total annual expenditure of colony P is Rs. 3,00,000 then money spend on food, dresses and electricity bill during the year is:

- (a) Rs. 1,65,000
- (b) Rs. 1,80,000
- (c) Rs. 2,10,000
- (d) Rs. 1,50,000
- (e) Rs. 1,25,000

Q14. If both the colonies have the same expenditure, which one spends more on education and miscellaneous together?

- (a) colony P
- (b) colony Q
- (c) Both colonies spend same
- (d) Can't be determined

(e) None of these

Q15. If annual expenditures of colony P and colony Q are Rs.1,20,000 and Rs.1,08,000 respectively, then total monthly expenditure on makeup by colony P is how much percent more than that by colony Q?

- (a) 400/3%
- (b) 200/3%
- (c) 700/3%
- (d) 500/3%
- (e) 550/3%

Solutions

S1. Ans.(b)

Sol.

Required percentage

$$= \frac{88 \times 18}{22 \times 84} \times 100 \approx 86\% \text{ (approx.)}$$

S2. Ans.(e)

Sol.

$$\text{Ratio} = 63000 \times \frac{12}{100} \times \frac{75}{100} : 63000 \times \frac{14}{100} \times \frac{22}{100} = 225 : 77$$

S3. Ans.(b)

Sol.

Required percent

$$= \frac{14 \times 89 - 12 \times 25}{14 \times 89} \times 100 \approx 76\%$$

S4. Ans.(a)

Sol.

Required percentage

$$= \frac{12 \times 18}{14 \times 100} \times 100 \approx 15\%$$

S5. Ans.(c)

Sol.

Difference

$$= \left| \frac{20}{100} \times \frac{86}{100} \times 63000 - \frac{14}{100} \times \frac{11}{100} \times 63000 \right| \approx 9866$$

S6. Ans.(b)

Sol.

Total passenger travelling by SaptKranti = $60 + 55 + 40 = 155$ thousand

Total passenger travelling by Rajdhani = $35 + 40 + 30 = 105$ thousand

$$\text{Ratio} = \frac{155}{105} = 31 : 21$$

S7. Ans.(a)

Sol.

$$\frac{30}{165} \times 100 = \frac{600}{33} \approx 18\%$$

S8. Ans.(d)

Sol.

Total Passengers by SaptKrant in all months = 155

Total Passengers by Vaishali in all months = 140

Vikramshila = 95

Rajdhani = 105

Shatabdi = 90 → Least no. of passengers

S9. Ans.(c)

Sol.

Average number of passengers travelling in the month of January = $\frac{195}{5} = 39$

Average number of passengers travelling in the month of February and March = $\frac{195}{5} = 39$

∴ Desired sum = $39 + 39 = 78$ thousand

S10. Ans.(a)

Sol. Total number of passengers by all trains in all three months = $(155 + 140 + 95 + 105 + 90) \times 1000 = 585000$

S11. Ans.(b)

Sol.

$$\text{Required fraction} = \frac{20}{100} = \frac{1}{5}$$

S12. Ans.(b)

Sol.

Monthly expenditure of colony Q = $\frac{1,00,000}{12}$

Money spent on dresses during the year by colony Q

$$= 12 \times \frac{20}{100} \times \frac{1,00,000}{12}$$

$$= \text{Rs. } 20,000$$

S13. Ans.(a)

Sol.

$$\text{Monthly expenditure of colony P} = \frac{3,00,000}{12}$$

$$\begin{aligned} \therefore \text{Required answer} &= 12 \times \frac{(25+20+10)}{100} \times \frac{3,00,000}{12} \\ &= 1,65,000 \end{aligned}$$

S14. Ans.(a)

Sol.

Let both have expenditure of 100

\therefore Expenditure of colony P on education and miscellaneous together

$$= 20 + 10$$

$$= 30$$

Expenditure of colony Q on Education and miscellaneous together

$$= 15 + 10$$

$$= 25$$

Clearly, colony P spends more than Q.

S15. Ans. (c)

Sol.

Monthly expenditure of colony P on makeup

$$= \frac{120000}{12} \times \frac{15}{100} = 1500$$

Monthly expenditure of colony Q on makeup

$$= \frac{108000}{12} \times \frac{5}{100} = 450$$

\therefore Required percentage

$$= \frac{1500-450}{450} \times 100 = 233\frac{1}{3}\%$$

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