

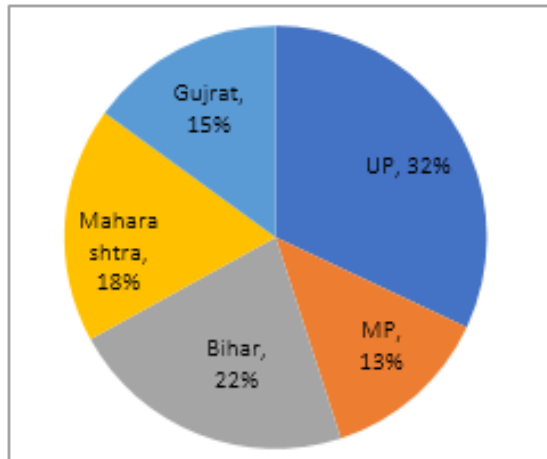
Quiz Date: 17<sup>th</sup> August 2020

Directions (1-5): **Study the following pie chart and table carefully to answer the following questions that follow:**

Percentage break up of MLAs in parliaments of various states of India and the ratio of men to women in them

Total Number of MLAs = 3500

### Percentage Break up of MLAs



Ratio of Men to Women		
State	Men	Women
UP	5	3
MP	7	6
Bihar	7	4
Maharashtra	5	4
Gujrat	3	2

Q1. What is the number of Male MLAs in the parliaments of UP and Bihar together?

- (a) 1320
- (b) 1190
- (c) 1265
- (d) 1894
- (e) 1694

Q2. The number of female MLAs in the parliament of Maharashtra forms what percent of the total no. of MLAs in the parliaments of all states together?

- (a) 7
- (b) 5
- (c) 8
- (d) 15
- (e) 10

Q3. What is the respective ratio of the number of female MLAs in the parliament of Gujrat and the no. of male MLAs in the parliament of MP ?

- (a) 3 : 4
- (b) 2 : 5
- (c) 2 : 9
- (d) 6 : 7
- (e) 5 : 7

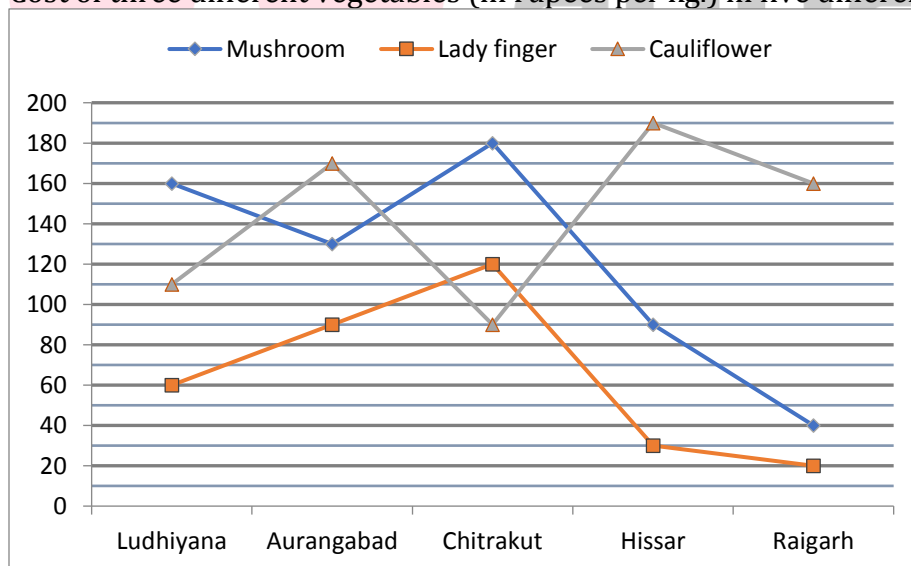
Q4. What is the approximate average no of male MLAs in the parliaments of the states MP, Bihar and Maharashtra together?

- (a) 362
- (b) 350
- (c) 368
- (d) 374
- (e) 378

Q5. The number of male MLAs in the state Gujrat are what percent more or less than the no. of female MLAs in the parliament of MP?

- (a) 50% less
- (b) 50% more
- (c) 64% more
- (d) 48% less
- (e) None of these

**Directions (6-10):** Study the following graph carefully to answer the questions that follow:  
Cost of three different vegetables (in rupees per kg.) in five different cities.



Q6. In which city is the difference between the cost of one kg. of mushroom and cost of one kg. of lady finger second lowest?

- (a) Ludhiyana

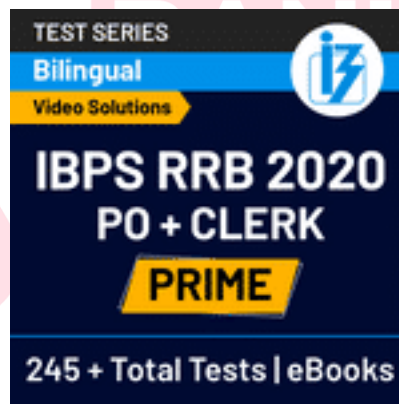
- (b) Hissar or Chitrakut
- (c) Aurangabad
- (d) Raigarh
- (e) None of these

Q7. Cost of one kg. of lady finger in Ludhiyana is approximately what percent of the cost of two kg of cauliflower in Chitrakut?

- (a) 66
- (b) 24
- (c) 28
- (d) 33
- (e) 58

Q8. What will be the difference between average cost of all vegetables per kg in Chitrakut and average cost of all vegetables per kg in Ludhiyana?

- (a) Rs 50
- (b) Rs 40
- (c) Rs 20
- (d) Rs 60
- (e) Rs 30



Q9. Ravinder had to purchase 45 kg of cauliflower from Hissar. Shopkeeper gave him discount of 4% per kg. What amount did he pay to the shopkeeper after the discount?

- (a) Rs 8,208
- (b) Rs 8,104
- (c) Rs 8340
- (d) Rs 8,550
- (e) Rs 8,410

Q10. What is the respective ratio between the cost of  $\frac{5}{2}$  kg. of cauliflower from Raigarh to the cost of  $\frac{3}{2}$  kg. of mushroom from Ludhiyana?

- (a) 3 : 2
- (b) 2 : 3
- (c) 5 : 11
- (d) 4 : 9

(e) 5 : 3

**Directions (11-15):** Study the following table carefully and answer the questions:

The table represents the different types of shirts sold by company M in 6 different days.

Company M	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Casual shirts	500	480	175	350	360	645
Flannel shirts	350	50	225	200	500	321
Formal shirts	75	250	325	190	525	179
Sleeve shirts	125	500	475	210	640	255
Denim shirts	425	125	620	550	275	500

Q11. Find the total number of casual shirts and Denim shirts together sold by company M?

- (a) 5000
- (b) 4450
- (c) 5250
- (d) 5005
- (e) 5025

Q12. Number of formal shirts sold on Tuesday and Wednesday together is what approximate percent of the number of flannel shirts sold on Monday and Thursday together ?

- (a) 100%
- (b) 105%
- (c) 125%
- (d) 75%
- (e) 120%

Q13. Find the difference between the total number of shirts sold on Monday and Tuesday together and the number of shirts sold on Thursday ?

- (a) 1380
- (b) 1050
- (c) 1280
- (d) 1400
- (e) 1475

Q14. Find the ratio of total number of shirts sold on Thursday to the total number of shirts sold on Saturday ?

- (a) 19 : 15
- (b) 15 : 38
- (c) 15 : 19
- (d) 25 : 19
- (e) 5 : 7

Q15. Find the difference between the total number of Denim shirts and total number of sleeve shirts sold ?

- (a) 230

- (b) 245  
 (c) 280  
 (d) 375  
 (e) 290

### Solutions

S1. Ans.(b)

Sol.

Required no. of male MLAs

$$= \left( \frac{5}{8} \times 32 \times 35 + \frac{7}{11} \times 22 \times 35 \right) = 1190$$

S2. Ans.(c)

Sol.

$$\text{Required percentage} = \frac{\frac{4}{9} \times 18 \times 35}{3500} \times 100 = 8\%$$



S3. Ans.(d)

Sol.

$$\text{Required ratio} = \frac{\frac{2}{5} \times 15}{\frac{7}{13} \times 13} = \frac{6}{7}$$

S4. Ans.(a)

Sol.

Required average

$$= \frac{1}{3} \times \left[ \frac{13 \times 7}{100 \times 13} + \frac{22 \times 7}{100 \times 11} + \frac{18 \times 5}{100 \times 9} \right] \times 3500$$

$$= 361.67$$

$$\simeq 362$$

S5. Ans.(b)

Sol.

$$\begin{aligned}\text{Required percentage} &= \frac{\frac{3}{5} \times 15 - \frac{6}{13} \times 13}{\frac{6}{13} \times 13} \times 100 \\ &= \frac{3}{6} \times 100 = 50\% \text{ more}\end{aligned}$$

**S6. Ans.(c)****Sol.** From the graph it is clear that 2<sup>nd</sup> lowest differences are in Aurangabad (Rs. 40 per kg)**S7. Ans.(d)****Sol.** Required percentage

$$\begin{aligned}&= \frac{60}{90 \times 2} \times 100 \\ &= 33.33\% \\ &\approx 33\%\end{aligned}$$

**S8. Ans.(c)****Sol.**

$$\begin{aligned}\text{Required difference} &= \frac{1}{3}(90 + 120 + 180) - \frac{1}{3}(60 + 110 + 160) \\ &= \frac{1}{3}(390 - 330) \\ &= \frac{1}{3} \times 60 \\ &= 20\end{aligned}$$

**S9. Ans.(a)****Sol.**

Amount paid by Ravinder to the shopkeeper of Hissar

$$\begin{aligned}&= 45 \times \frac{96}{100} \times 190 \\ &= \text{Rs } 8208\end{aligned}$$

**S10. Ans.(e)****Sol.**

$$\begin{aligned}\text{Required ratio} &= \frac{\frac{5}{2} \times 160}{\frac{3}{2} \times 160} \\ &= \frac{5}{3}\end{aligned}$$

**S11. Ans.(d)****Sol.**

$$\begin{aligned}\text{Required total} &= (500 + 480 + 175 + 350 + 360 + 645) + (425 + 125 + 620 + 550 + 275 + 500) \\ &= 5,005\end{aligned}$$

S12. Ans.(b)

Sol.

Number of formal shirts sold on Wednesday and Tuesday together =  $250 + 325 = 575$

Number of flannel shirts sold on Monday and Thursday together =  $350 + 200$   
= 550

$$\begin{aligned}\text{Required percent} &= \frac{575}{550} \times 100 \\ &= 104.5\% \approx 105\%\end{aligned}$$

S13. Ans.(a)

Sol.

Total number of shirts sold on Monday and Tuesday

$$= (500 + 350 + 75 + 125 + 425) + (480 + 50 + 250 + 500 + 125)$$

$$= 2880$$

Total number of shirts sold on Thursday =  $(350 + 200 + 190 + 210 + 550) = 1500$

Required difference = 1380

S14. Ans.(c)

Sol.

Total number of shirts sold on Thursday =  $(350 + 200 + 190 + 210 + 550) = 1500$

Total number of shirts sold on Saturday =  $(645 + 321 + 179 + 255 + 500) = 1900$

Required ratio =  $1500 : 1900 = 15 : 19$

S15. Ans.(e)

Sol.

Total number of Denim shirts =  $(425 + 125 + 620 + 550 + 275 + 500) = 2495$

Total number of sleeve shirts =  $(125 + 500 + 475 + 210 + 640 + 255) = 2205$

Required difference =  $2495 - 2205 = 290$

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