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# Maths Questions for CLAT Exam.

## CLAT Maths Quiz 18

Directions : Study the following information carefully and answer the questions given beside.

There are three Tiffin centres X, Y and Z. The average number of people working in X and Y is 265, the average number of people working in Y and Z is 295 and the average number of people working in X and Z is 310. Ratio of male to female workers in X is 4 : 3 and in Y, female is 50% more than male workers. Ratio of male of Y to that in Z is 5 : 9.

1. Total male in X and Y together is how much more or less than total workers in Z?

- A. 100                                      B. 90                                      C. 80                                      D. 84

2. Total workers in X is what percentage less than total female workers in Y and Z together?

- A. 10.67%                                      B. 9.12%                                      C. 9.68%                                      D. 9.95%

3. Average number of male and female workers in Y is what percent of male workers in Z?

- A. 69.44%                                      B. 65.34%                                      C. 66.45%                                      D. 67.23%

4. Find the ratio of total number of male workers in Y and Z together to the total number of female workers in X and Y together?

- A. 22 : 27                                      B. 23 : 25                                      C. 26 : 25                                      D. 28 : 27

5. If 10% and 20% of the male and female workers respectively in X fall sick in January month, then find the percentage of workers in X who fall sick in January?

- A. 11.56%                                      B. 13.68%                                      C. 14.28%                                      D. 15.98%

6. The number of males working in Tiffin centre Y is what percent less than that of males working in Tiffin centre X?

- A. 60                                      B. 37.5                                      C. 33.33                                      D. 66.66

7. Find the difference between the total number of males and females working in all the given Tiffin centers.

- A. 10                                      B. 20                                      C. 25                                      D. 28

8. In Tiffin center Z, the number of females is what percent of the number of males?  
 A. 112.5                      B. 115.25                      C. 98                      D. 88.88
9. If 20 females from Tiffin center X and 10 males from Tiffin center Y stop working in their respective Tiffin centers and start working in Tiffin center Z, what will be the new ratio of females to that of males working in Tiffin center Z?  
 A. 15 : 17                      B. 13 : 17                      C. 18 : 19                      D. 14 : 19
10. What is the ratio of the average number of males working in Tiffin centers X and Y to the total number of people working in X and Z?  
 A. 12 : 53                      B. 13 : 62                      C. 13 : 53                      D. 14 : 61

Correct Answers:

1	2	3	4	5	6	7	8	9	10
C	C	A	D	C	B	A	D	C	B





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## Common explanations :

ATQ,

$$X + Y = 530$$

$$Y + Z = 590$$

$$X + Z = 620$$

$$2(X + Y + Z) = 1740$$

$$X + Y + Z = 870$$

$$X + Y + Z - (X + Y) = 870 - 530$$

$$Z = 340$$

$$X + Y + Z - (Y + Z) = 870 - 590$$

$$X = 280$$

$$X + Y + Z - (X + Z) = 870 - 620$$

$$Y = 250$$

Males in X = 160, females = 120

In Y, let male workers be A

$$A + 1.5A = 250$$

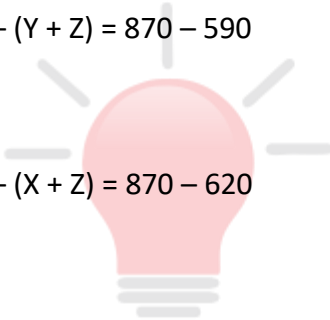
$$A = 100$$

Males in Y = 100, females = 150

{Males of Y} : {Males of Z} = 5 : 9

100 : Males of Z = 5 : 9

Males in Z = 180, females = 160



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## Explanations :

1. From common explanation, we have

$$\text{Males in X and Y} = 160 + 100 = 260$$

$$\text{Total workers in Z} = 340$$

$$\text{Required difference} = 340 - 260 = 80$$

Hence, option C is correct.

2. From common explanation, we have

$$\text{Total workers in X} = 280$$

$$\text{Female workers in Y and Z} = 150 + 160 = 310$$

$$\text{Reqd. \%} = \frac{(310 - 280) \times 100}{310} = \frac{300}{31} = 9.68\%$$

Hence, option C is correct.

3. From common explanation, we have

Average number of male and female workers in Y

$$= \frac{100 + 150}{2} = 125$$

$$\text{Male workers in Z} = 180$$

$$\text{Reqd. \%} = \frac{125 \times 100}{180} = 69.44\%$$

Hence, option A is correct.

4. From common explanation, we have

$$\text{Male workers in Y and Z} = 100 + 180 = 280$$

$$\text{Female workers in X and Y} = 120 + 150 = 270$$

$$\text{Ratio} = 280 : 270 = 28 : 27$$

Hence, option D is correct.

**5.** From common explanation, we have

Total workers in X = 280

Male workers in X = 160

Male worker who fall sick

$$= \frac{160 \times 10}{100} = 16$$

Female workers in X = 120

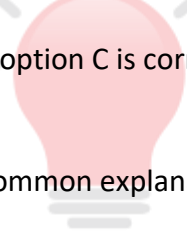
Female workers who fall sick

$$= \frac{120 \times 20}{100} = 24$$

Total workers who fall sick = 16 + 24 = 40

$$\text{Reqd. \%} = \frac{40 \times 100}{280} = \frac{100}{7} = 14.28\%$$

Hence, option C is correct.



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**6.** From common explanation, we have

Number of males in Tiffin centre Y = 100

Number of males in Tiffin centre X = 160

$$\text{Reqd. \%} = (160 - 100)/160 \times 100 = 37.5\%$$

Hence, Option B is correct.

**7.** From common explanation, we have

Total number of males = 160 + 100 + 180 = 440

Total number of females = 430

$$\text{Reqd. Difference} = 440 - 430 = 10$$

Hence, Option A is correct.

8. From common explanation, we have

The number of males in Tiffin center Z = 180

The number of females in Tiffin center Z = 160

$$\text{Reqd. \%} = 160/180 \times 100 = 88.88\%$$

Hence, Option D is correct.

9. From common explanation, we have

The number of males in Tiffin center Z = 180

The number of females in Tiffin center Z = 160

$$\text{New number of females} = 160 + 20 = 180$$

$$\text{New number of males} = 180 + 10 = 190$$

$$\text{Reqd. Ratio} = 180 : 190 = 18 : 19$$

Hence, Option C is correct.

10. From common explanation, we have

Number of males in Tiffin center X = 160

Number of males in Tiffin center Y = 100

$$\text{Average} = (100 + 160)/2 = 130$$

Number of people in Tiffin center X = 280

Number of people in Tiffin center Z = 340

$$\text{Reqd. Ratio} = 130 : (280 + 340) = 13 : 62$$

Hence, Option B is correct.





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