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Maths Questions for CLAT Exam.

CLAT Maths Quiz 19

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

In Delhi, the total male employees in 4 companies A, B, C and D is 2520, where as the ratio of total male and total female employees is 3 : 2. Number of male employees in company A is $\frac{2}{5}$ of the total male employees . Number of female employees in company B is equal to the male employees in company C. Ratio of female and male employees in company D is 2 : 3. Female employees in company A is $\frac{2}{3}$ of male employees in A. Male employees in company B is $\frac{5}{8}$ of the number of male employees in company A. The ratio of male employees in company C and D is 1 : 2.

1. Find out the number of female employees in company C?

- A. 320 B. 322 C. 340 D. 345

2. Find the total number of male employees in company C, D and B?

- A. 1500 B. 1490 C. 1512 D. 1621

3. Find the average of the total employees in company B and D together?

- A. 950 B. 952 C. 940 D. 935

4. Female employees in company D is what percent less than the male employees in company A?

- A. 57.5% B. 60% C. 67.5% D. None of these

5. Find the ratio between male and female employees in company B?

- A. 11 : 2 B. 21 : 4 C. 23 : 11 D. 15 : 7

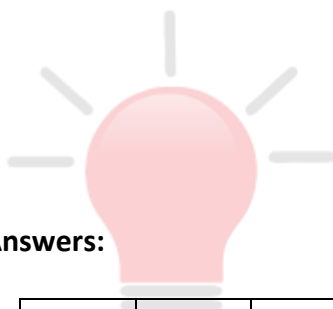
6. Find the total number of Female employees in companies B and D.

- A. 616 B. 686 C. 656 D. 676

7. The number of Female employees in Company B is what percent of the number of Male employees in Company D?

- A. 200 B. 100 C. 50 D. 133.3

8. If 100 employees of Company D leave the company, out of which the ratio of the Males and Females is 3 : 2 respectively, what is the new number of Males in Company D?
- A. 548 B. 538 C. 558 D. 528
9. What is the average of the total number of Female employees in companies B and C?
- A. 308 B. 343 C. 326 D. None of these
10. What is the ratio of the total number of employees in Company C to the total number of employees in Company A?
- A. 11 : 30 B. 30 : 11 C. 13 : 30 D. 30 : 13



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The Question Bank

Correct Answers:

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



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Common explanations :

Given Male: Female = 3 : 2

Male = 2520, therefore Female = 1680

Total employees = 4200

Male in company A = $\frac{2}{5}$ of total male employees

$$= \frac{2}{5} \text{ of } 2520$$

Male employees in company A = 1008

Male employees in company B = $\frac{5}{8}$ of male employees in company A

$$= \frac{5}{8} \text{ of } 1008 = 630$$

Male employees remaining = $2520 - (1008 + 630) = 882$

Give that remaining male employees (i.e. 882) are in company C and D in the ratio 1 : 2

Male employees in C = 294

Male employees in D = 588

Female employees in company A = $\frac{2}{3}$ of male employees in company A

$$= \frac{2}{3} \text{ of } 1008 = 672$$

Male employees of C = Female employees of B = 294

Ratio of Female and male employees in company D is 2 : 3

Male employees in D = 588

Therefore, female employees in D = 392

Company	Male	Female
A	1008	672
B	630	294
C	294	322
D	588	392

Explanations :

1. Following the common explanation, we get

Female employees in C = 322

Hence, option B is correct.

2. Following the common explanation, we get

Total male employees in company B, C and D = $(630 + 294 + 588) = 1512$

Hence, option C is correct.

3. Following the common explanation, we get

Total employees in B and D = $(630 + 294 + 588 + 392) = 1904$

Average = $\frac{1904}{2} = 952$

Hence, option B is correct.

4. Following the common explanation, we get

Difference between male employees in company A and female employees in company D = $(1008 - 392) = 616$

Required % = $\frac{616}{1008} = 61.11\%$

Hence, option D is correct.

5. Following the common explanation, we get

Male in B : female in B = $630 : 294 = 15 : 7$

Hence, option D is correct.



6. From common explanation, we have

Number of Female employees in Company B = 294

Number of Female employees in Company D = 392

Reqd. Answer = $294 + 392 = 686$

Hence, Option B is correct.

7. From common explanation, we have

Number of Female employees in Company B = 294

Number of Male employees in Company D = 588

Reqd. % = $294/588 \times 100\% = 50\%$

Hence, Option C is correct.

8. From common explanation, we have

Number of Males who leave the company = $3/((3+2)) \times 100 = 60$

Remaining Males employees = $588 - 60 = 528$

Hence, Option D is correct.

9. From common explanation, we have

Number of Female employees in Company B = 294

Number of Female employees in Company C = 322

Reqd. Average = $(294 + 322)/2 = 308$

Hence, Option A is correct.



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10. From common explanation, we have

Total number of employees in Company A = $1008 + 672 = 1680$

Total number of employees in Company C = 616

Reqd. Ratio = $616 : 1680 = 11 : 30$

Hence, Option A is correct.



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