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# CLAT 2020
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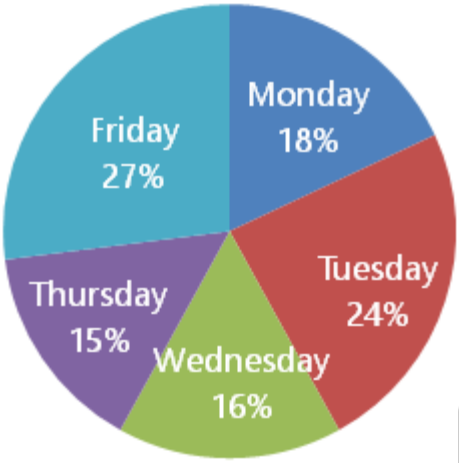
# DI Pie Chart Questions for CLAT Exam.

## Maths Questions Quiz 1

**Directions: Study the following pie chart carefully and answer the questions given beside.**

Tinka Nupoor was in a country where COVID-19 was widespread. She came to India on Monday, 17 Feb 2020. She was tested and found positive on 22 Feb, Saturday. Within the five days from Monday to Friday, she came in physical contact with 900 people, whose number for each day is given in the pie chart.

Number of People in Physical Contact




Out of those whom she came in contact with during these five days, only 40% were found positive when tested after three days on Tuesday, 25 Feb. Each person, who was found positive, came in physical contact with on an average 12 uninfected people each day in the these three days (i.e. on Saturday, Sunday and Monday) before being tested and isolated on Tuesday.

**1. What percent more people Tinka Nupoor came in contact with on Friday than on Tuesday?**

A. 10% B. 12% C. 12.5% D. 16.67% E. 20%

**2. How many people she infected before being found positive?**

A. 900 B. 450 C. 720 D. 540 E. 360

**3. Ratio of men to women she came in contact with on Wednesday was 4 : 5. Number of men who were above age of 50 years were 40% less than those who were equal to or below age of 50 years. None of the men equal to or below age of 50 years was found positive. How many men were found positive?**

A. 40 B. 64 C. 80 D. 24 E. 16

**4.** **On Monday, number of men she came in contact with were 35% of the number of women. All the men whom she came in contact with on Monday were found positive and number of women who were found positive were equal to the number of men. How many people were found negative, from the people she came in contact with on Monday?**

A. 78 B. 84 C. 42 D. 126 E. None of these

**5.** **Out of all the people who came in physical contact, from Saturday to Monday, with those who came in physical contact with Tinka Nupoor and were found positive, only 45% were found positive when tested on Wednesday, 26 Feb. How many people were found positive on 26 Feb?**

A. 4562 B. 1296 C. 5832 D. 3257 E. 9612

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**Correct Answers:**

| 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|
| C | E | D | A | C |

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**Common Explanation:**

Let us find the number of people who came in physical contact with TinkaNupoor on various given days:

Monday = 18% of 900 = 162

Tuesday = 24% of 900 = 216

Wednesday = 16% of 900 = 144

Thursday = 15% of 900 = 135

Friday = 27% of 900 = 243

Only 40% of 900 were found positive on tests on Tuesday, thus 40% of 900 = 360 were found positive.

## Answers :

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

Tuesday = 24% of 900 = 216

Friday = 27% of 900 = 243

Percent difference = $\frac{243 - 216}{216} \times 100 = 12.5\%$

**Alternative:**

We can directly use the values on pie chart since the '900' is common to all values of pie chart.

$\frac{27 - 24}{24} \times 100 = 12.5\%$

Hence, option C is correct.

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

Only 40% of people were found positive who she came in physical contact with.

Thus 40% of 900 = 360

Hence, option E is correct.

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

On Wednesday, from common explanation, total 144 people came in contact with her.

Number of men = $\frac{4}{4 + 5} \times 144 = 64$

Let the number of men below 50 years were 'y', then

Number of men who were above 50 years age = y – 40% of y = 0.6y

Total men = y + 0.6y = 1.6y = 64 or y = 40

Men above 50 years of age found positive = 64 – 40 = 24

Hence, option D is correct.

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

Total people she came in contact with on Monday from common explanation = 162

Let total 'y' men she came in contact with, then, we have

$$\frac{y}{162 - y} \times 100 = 35$$

$135y = 162 \times 35$

$y = 42$

Number of women who found positive = number of men = all men = 42

Total people who found positive = 42 + 42 = 84

Number of people found negative = 162 – 84 = 78

**Alternative:**

To calculate number of men, we have
Let Men = M, Women = W
Men are 35% of women
M = 35% of W = 0.35W

Also, M + W = 162

$0.35W + W = 162$

$1.35W = 162$

$$W = \frac{162}{1.35} = 120$$

$M = 162 - 120 = 42$

Hence, option A is correct.

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**5.** From common explanation, we have 360 people who were found positive on 25 feb.

Each of whom came in contact with an average of 12 people each day. Thus in three days, they would have come in contact with 3 × 12 = 36 people.

There were 360 people, so all would have come in contact with 36x360 people

Only 45% of these were found positive, thus = 45% of 36 × 360 = 5832

Hence, option C is correct.

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