

Data Interpretation (Line Graph) Questions PDF with detailed solutions

Data Interpretation (Line Graph) questions are a type of questions which are frequently asked in competitive exams. These questions carry a weightage of 2-3 questions(3-6 marks) in SSC exams and 5-10 questions(5-10 marks) in bank exams. To perform well in competitive exams, you should have a good practice of data interpretation questions.

Here are some tips for solving Data Interpretation (Bar Graph) questions: Read the Graph Carefully, Start by understanding the directions, labels, and units. Decide which questions to tackle first. Usually, start with straightforward ones. Clearly write down your calculations, so you can retrace your steps if needed. Practice Regularly to maintain speed and accuracy

So, we have attached 10 questions of Data Interpretation (Line Graph) for you to practice with. You should aim to solve these questions in less than half a minute for each.

Practice Questions on Data Interpretation (Line Graph)

You can also download the Data Interpretation (Line Graph) questions and answers pdf. Just click on the **Download PDF** button. So let's start with the very first question.

Directions (1 - 5): The following line graph gives information about the number of families who live in their own flats, in PG, or at rent in 5 different blocks of Bhopal. Read the graph carefully and answer the following questions.

(All values in the graph are in multiples of 5)

Q:1 This month, 25% of families living at Rent in Block B bought the flat in which they were living and 12% of families living at Rent in Block D bought the flat in which they were living. What is the new percentage of the total number of families who are living in their own flats across all the blocks?

1. 36.3%

2. 43.4%



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3. 47.8%
4. 44.6%
5. 39.8%

(**Difficulty:** 3, **Estimated Time:** 20 Seconds) This was a good question

Q:2 Block A and D are high-class blocks while others are Middle-class blocks. What is the ratio of the number of families living either at rent or PG in High-class blocks to the number of families living in their own flats in Middle-class blocks?

1. 7 : 8
2. 8 : 7
3. 11 : 12
4. 12 : 11
5. None of these

(**Difficulty:** 3, **Estimated Time:** 20 Seconds) Keep practising to improve your speed....

Q:3 In block B, the average number of member in each family living at rent is 3 while the average number of members in each family for the other 2 categories are 4. What is the percentage of people who live in PG in Block B?

1. 41.6%
2. 43.7%
3. 39.4%
4. 40.2%
5. 37.1%

(**Difficulty:** 2, **Estimated Time:** 15 Seconds) Try shortening your calculations....

Q:4 What is the average number of families across all the blocks?

1. 92
2. 97
3. 86
4. 89
5. 88

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(**Difficulty:** 3, **Estimated Time:** 20 Seconds) This is a common type asked in exams..

Q:5 What is the combined percentage of families living at Rent across all the Blocks?

1. 17.6%
2. 16.8%
3. 19.4%
4. 20.3%
5. 21.2%

(**Difficulty:** 2, **Estimated Time:** 15 Seconds) We're halfway through. Have you got all your questions correct so far?

Directions (6 - 10): The line graph below shows the number of flowers of 4 types: Rose, Lily, Marigold and Jasmin in two gardens A and B. Study the graph carefully and answer the questions that follow.

Q:6 There is an order of flower decoration in which 550 Rose, 450 Marigold and 400 Jasmin are to be delivered. The flowers are plucked from Garden A first and in case Garden A does not have sufficient flowers, remaining flowers are plucked from Garden B. What will be the ratio of remaining Rose, Marigold and Jasmin flowers in Garden B?

1. 3 : 2 : 7
2. 5 : 4 : 7
3. 5 : 2 : 9
4. 2 : 3 : 5
5. None of these

(**Difficulty:** 3, **Estimated Time:** 25 Seconds) This was a bit calculative....

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Q:7 Next day, 20 Rose flowers in garden A and some Jasmin flowers in garden B got wasted. If the ratio of Rose flowers in garden A and Jasmin flowers in garden B is now 2 : 1 then how many Jasmin flowers in garden B got wasted?

1. 65
2. 60
3. 75
4. 80
5. 70

(**Difficulty: 3, Estimated Time: 20 Seconds**) Be careful while reading data

Q:8 The gardener plucked 30% of the Lily flowers in garden A and $\frac{2}{5}$ th of the Lily flowers in garden B. If he prepared 5 garlands of equal length from these flowers, then find the number of flowers used in a garland. (21 flowers got wasted while plucking)

1. 42
2. 48
3. 44
4. 46
5. 45

(**Difficulty: 3, Estimated Time: 20 Seconds**) Just basic concepts.....

Q:9 The cost of Jasmin flowers is Rs. 16/dozen and that of Rose flower is 40 paisa per flower. Find the total cost of Rose and Jasmin flowers in Garden A.

1. Rs. 742
2. Rs. 750
3. Rs. 748
4. Rs. 777
5. Rs. 772

(**Difficulty: 3, Estimated Time: 20 Seconds**) You might have had a good score today....

Q:10 5 garlands are prepared and 25 Marigold flowers, 20 Jasmin flowers and 10 Lily flowers are used in each garland. If all the flowers are plucked from garden B then find the total number of remaining flowers in garden B.

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1. 885
2. 865
3. 925
4. 905
5. 855

(Difficulty: 2, Estimated Time: 15 Seconds) Did you guess them all correctly?

Answer Key

Let's check out your score in this test.

1. (3)	2. (2)	3. (2)	4. (4)	5. (2)
6. (1)	7. (3)	8. (4)	9. (5)	10. (2)

Comment below your score, considering each question has 1 mark only. If you scored 8 to 10, congratulations! You are one step closer to selection. If you have scored 5 to 8 marks, then you are doing well, keep it up. If you have scored less than 5 marks then you need to work a little harder on this subject. But don't worry, we are here to help you master the subject.

Let's check the answers and solutions and try to find out what went wrong.

Answers and Solutions

Q:1 The correct answer is **option 3** i.e. **47.8%**

Families living on rent in Block B = 20

25% of them bought the flat, i.e. $0.25 \times 20 = 5$ families bought the flat.

Families living on Rent in D = 25

12% of them bought the flat, i.e. $0.12 \times 25 = 3$ families bought the flat.

Now total Families who are living in their own flats across all blocks:

$$= 45 + 30 + 50 + 55 + 25 + 5 + 3$$

$$= 213$$

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Total families across all blocks :

$$\begin{aligned} & (10 + 35 + 45) + (20 + 30 + 35) + (5 + 15 + 50) + (25 + 50 + 55) + (15 + 25 + 30) \\ & = 90 + 85 + 70 + 130 + 70 \\ & = 445 \end{aligned}$$

Total families living across all blocks = 445

Percentage of families living in their own flats = $213/445 \times 100 = 47.8\%$

Q:2 The correct answer is **option 2** i.e. **8 : 7**.

Number of families living on rent in A and D = $10 + 25 = 35$

Number of families living in PG in A and D = $35 + 50 = 85$

Total = $85 + 35 = 120$

Number of families living in their own flats in B, C, and E = $30 + 50 + 25 = 105$

The ratio of Families living either on rent or PG in High-Class blocks to families living in their own flats in Middle-Class blocks = $120 : 105 = 8 : 7$

Q:3 The correct answer is **option 2** i.e. **43.7%**.

In Block B,

Number of families on rent = 20

Number of people = $20 \times 3 = 60$

Number of families in PG = 35

Number of people = $35 \times 4 = 140$

Number of families living in their own flats = 30

Number of people = $30 \times 4 = 120$

Hence, percentage of people living in PG in block B = $140/(140 + 60 + 120) \times 100 = 43.7\%$

Q:4 The correct answer is **option 4** i.e. **89**.

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Total number of families across all blocks = 445

Total 5 blocks are there.

Hence, Average = $445/5 = 89$

Q:5 The correct answer is **option 2** i.e. **16.8%**.

Total families living on rent across all blocks = $10 + 20 + 5 + 25 + 15 = 75$

Total families across all blocks :

$\Rightarrow (10 + 35 + 45) + (20 + 30 + 35) + (5 + 15 + 50) + (25 + 50 + 55) + (15 + 25 + 30)$

$\Rightarrow 90 + 85 + 70 + 130 + 70$

$\Rightarrow 445$

Relative percentage of families living on Rent = $75/445 \times 100 = 16.8\%$

Q:6 The correct answer is **option 1** i.e. **3 : 2 : 7**.

From the line graph:

Total number of Rose flowers in garden A = 430

Total number of Marigold flowers in garden A = 350

Total number of Jasmin flowers in garden A = 450

Now, 550 Rose, 450 Marigold, and 400 Jasmin are to be delivered.

So, Number of Rose flowers plucked from Garden B after plucking from Garden A

= $[550 - 430] = 120$

Number of Marigold flowers plucked from Garden B after plucking from Garden A

= $[450 - 350] = 100$

Number of Jasmin flowers plucked from Garden B after plucking from Garden A = 0 (Garden A has sufficient Jasmin flowers)

Now, Total number of Rose flowers in garden B = 240

Total number of Marigold flowers in garden B = 180

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Total number of Jasmin flowers in garden B = 280

Hence,

The remaining number of Rose flowers in Garden B = $240 - 120 = 120$

The remaining number of Marigold flowers in Garden B = $180 - 100 = 80$

The remaining number of Jasmin flowers in Garden B = $280 - 0 = 280$

Hence, Required ratio = $120 : 80 : 280 = 3 : 2 : 7$

Q:7 The correct answer is **option 3** i.e. **75**.

From the line graph:

Total number of Rose flowers in garden A = 430

Total number of Jasmin flowers in garden B = 280

Suppose 'x' Jasmin's flowers in garden B got wasted.

So,

$$(430 - 20) : (280 - x) = 2 : 1$$

$$410 : (280 - x) = 2 : 1$$

$$280 - x = 205$$

$$x = 75$$

Hence, 75 Jasmin flowers in Garden B got wasted.

Q:8 The correct answer is **option 4** i.e. **46**

From the line graph:

Total number of Lily flowers in garden A = 250

Total number of Lily flowers in garden B = 440

So, Number of Lily flowers plucked by the gardener = $250 \times 0.3 + 440 \times 2/5 = 75 + 176 = 251$

Since, 21 flowers got wasted while plucking:

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Number of Lily flowers used to prepare garlands = $251 - 21 = 230$

Given: He prepared 5 garlands of equal length.

So, Number of flowers used in a garland = $230/5 = 46$

Q:9 The correct answer is **option 5** i.e. **Rs. 772**

From the line graph:

Total number of Rose flowers in garden A = 430

Total number of Jasmin flowers in garden A = 450

Given:

The cost of Jasmin flowers is Rs. 16/dozen and that of Rose flowers is 40 paisa per flower

So, Total cost = $430 \times 0.4 + 450/12 \times 16 = 172 + 600 = \text{Rs. } 772$

Q:10 The correct answer is **option 2** i.e. **865**.

From the line graph:

Total number of flowers in Garden B = $240 + 440 + 180 + 280 = 1140$

Given

Each garland has 25 Marigold flowers, 20 Jasmin flowers and 10 Lily flowers.

So, Total number of flowers used in 5 garlands = $5 \times (25 + 20 + 10) = 275$

Hence, Total number of remaining flowers in garden B = $1140 - 275 = 865$

So, this is it for today. We will meet again with another new topic. Till then, you can practice the questions again by downloading the PDF of Data Interpretation (Line Graph).