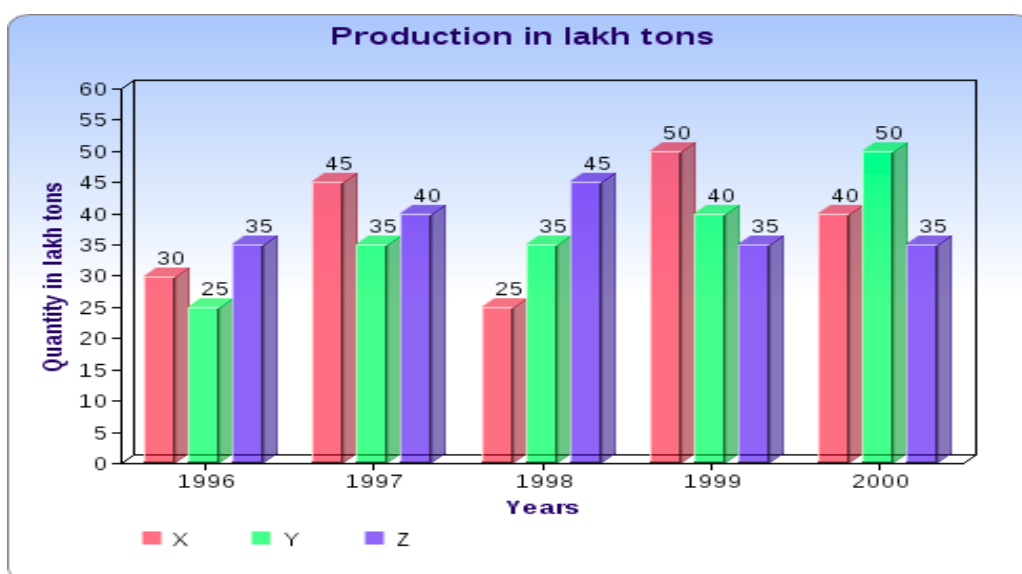


Unit 1

Practice Questions : Data Visualization

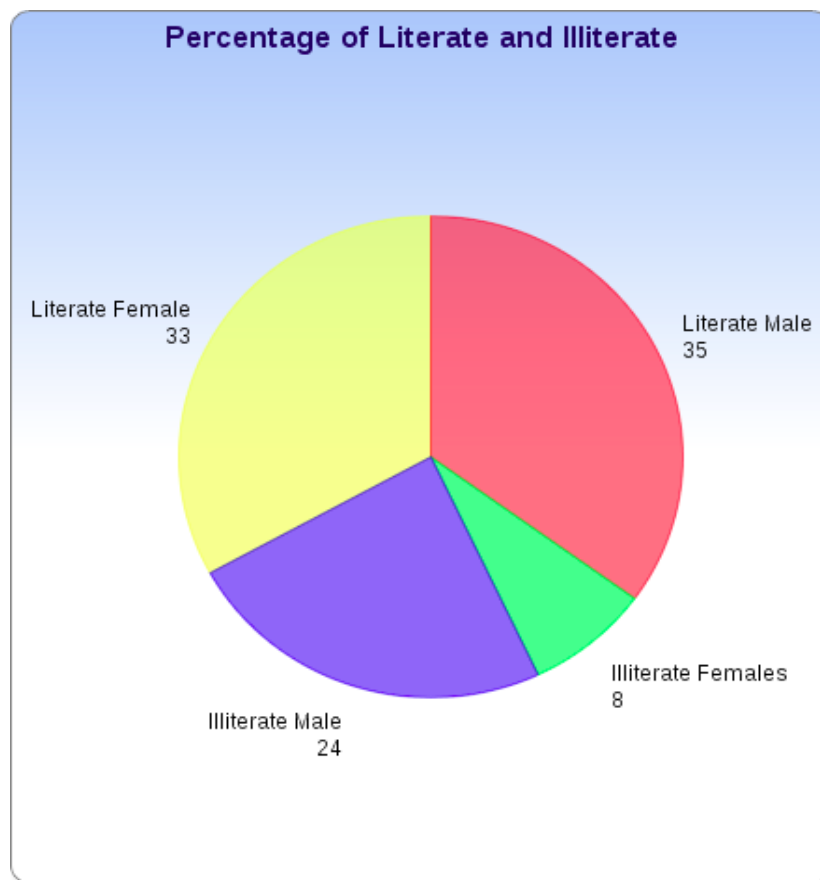
Question 1 : The bar graph provided below gives the data of the production of paper (in lakh tonnes) by three different companies X,Y,Z over the years. Study the bar chart and answer the questions.



| | |
|---|--|
| 1. What is the difference between the production of Company Z in 1998 and Company Y in 1996 ? | 1. 10,00,000 tonnes 2. 15,00,000 tonnes 3. 20,00,000 tonnes 4. 25,00,000 tonnes |
| 2. What is the ratio of the average production of Company X in the period 1998-2000 to the average production of company Y in the same period? | 1. 23:25 2. 24:27 3. 25:26 4. 27:29 |
| 3. What is the percentage increase in the production of Company Y from 1996 to 1999 ? (Note : To get the percentage increase in the something, we have to first get the difference between the final value and initial value, then we can get the calculate that difference is what percentage of "initial value") | 1. 40% 2. 50% 3. 55% 4. 60% |

| | |
|--|--|
| <p>4. The average production for five years was maximum for which Company ?</p> | <ol style="list-style-type: none"> 1. X 2. Y 3. Z 4. X and Z |
| <p>5. For which of the following years, the percentage rise/fall in production from the previous year is maximum for Company Y ?</p> | <ol style="list-style-type: none"> 1. 2000 2. 1999 3. 1997 4. 1998 |

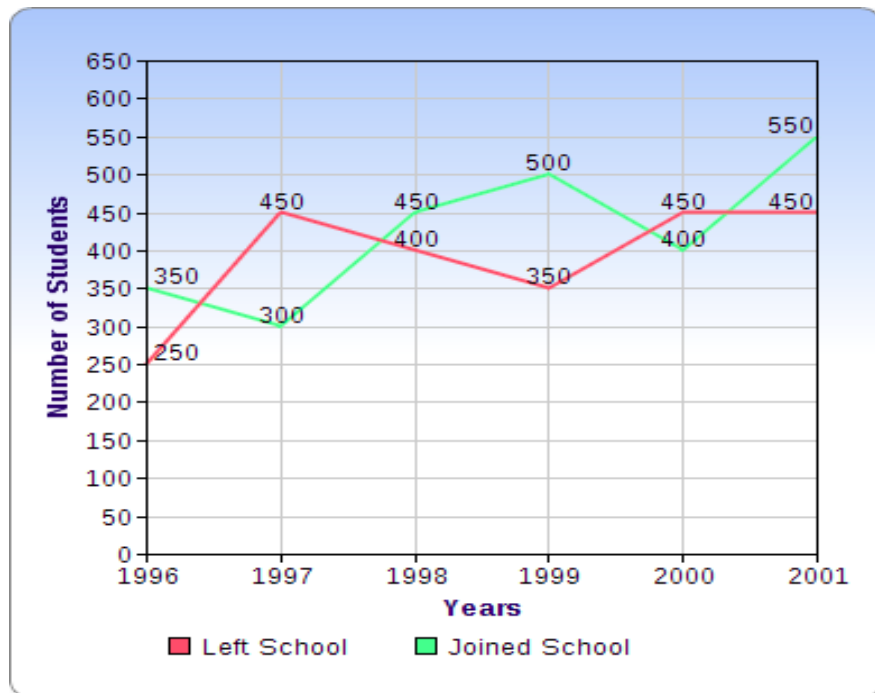
Question 2 : The following Pie chart shows the percentage of Literate and Illiterate males and females in a city.



What is the difference between the number of Literate Males and Literate Females, If total number is 2,50,000 ?

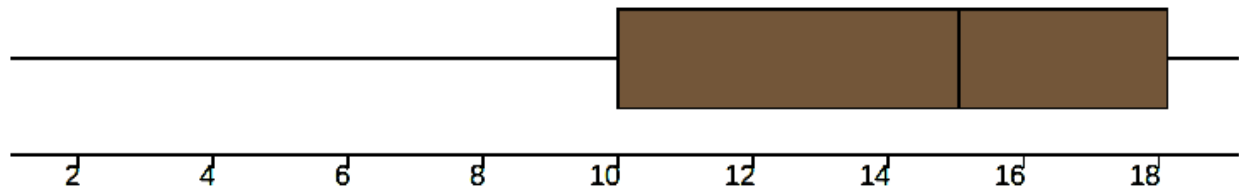
1. 3500
2. 4500
3. 5000
4. 6000

Question 3 : Study the following line graph which gives the number of students who joined and left the school in the beginning of the year for six years from 1996 to 2001. Initial strength of the school in 1995 was 3000.



| | |
|--|--|
| 1. The strength of the school increased from 1997 to 1998 by what percent ? | <ol style="list-style-type: none"> 1. 1.7% 2. 1.8% 3. 1.9% 4. 2% |
| 2. The number of students studying in the school in 1998 was what percent of the number of students studying in the school in 2001 ? | <ol style="list-style-type: none"> 1. 90.75% 2. 91.75% 3. 92.75% 4. 93.75% |
| 3. Among the given years the largest number of students joined in which year ? | <ol style="list-style-type: none"> 1. 1999 2. 2000 3. 2001 4. 1998 |

Question 4 :Consider the boxplot below.



Which of the following statements are true?

- I. The distribution is skewed right.
- II. The interquartile range is about 8.
- III. The median is about 10.

- (A) I only
- (B) II only
- (C) III only
- (D) I and III
- (E) II and III