DATA INTERPRETATION

Data Interpretation is one of the easy sections of one day competitive Examinations. It is an extension of Mathematical skill and accuracy. Data interpretation is nothing but drawing conclusions and inferences from a comprehensive data presented numerically in tabular form by means of an illustration, viz. Graphs, Pie Chart etc. Thus the act of organizing and interpreting data to get meaningful information is Data Interpretation.

There are of chart are here that we will discuss in the section

- 1. Table Chart
- 2.Bar Chart
- 3. Line Chart
- 4. Pie Chart

Table Chart

- A table chart is a means of arranging data in rows and columns. The use of tables is pervasive throughout all communication, research and data analysis.
- °They are best used for comparison, composition, or relationship analysis when there are only few variables and data points.

Q1. The following table gives the percentage of marks obtained by seven students in six different subjects in an examination.

The Numbers	in	the	Brackets	give	the	Maximum	Marks	in	Each	Sub	ect.
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	Subject (Max. Marks)							
Student	Maths	Chemistry	Physics	Geography	History	Computer Science		
	(150)	(130)	(120)	(100)	(60)	(40)		
Ayush	90	50	90	60	70	80		
Aman	100	80	80	40	80	70		
Sajal	90	60	70	70	90	70		
Rohit	80	65	80	80	60	60		
Muskan	80	65	85	95	50	90		
Tanvi	70	75	65	85	40	60		
Tarun	65	35	50	77	80	80		

Q1. What are the average marks obtained by all the seven students in Physics? (rounded off to two digit after decimal)

A. 77.26

B. 89.14 C. 91.37 D. 96.11

Q1. The following table gives the percentage of marks obtained by seven students in six different subjects in an examination.

The Numbers in the Brackets give the Maximum Marks in Each Subject.

	Subject (Max. Marks)							
Student	Maths	Chemistry	Physics	Geography	History	Computer Science		
	(150)	(130)	(120)	(100)	(60)	(40)		
Ayush	90	50	90	60	70	80		
Aman	100	80	80	40	80	70		
Sajal	90	60	70	70	90	70		
Rohit	80	65	80	80	60	60		
Muskan	80	65	85	95	50	90		
Tanvi	70	75	65	85	40	60		
Tarun	65	35	50	77	80	80		

Q2. The number of students who obtained 60% and above marks in all subjects is?

A. 1 B. 2

C. 3

D. None

Q1. The following table gives the percentage of marks obtained by seven students in six different subjects in an examination.

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	(150)	(130)	(120)	(100)	(60)	(40)		
Ayush	90	50	90	60	70	80		
Aman	100	80	80	40	80	70		
Sajal	90	60	70	70	90	70		
Rohit	80	65	80	80	60	60		
Muskan	80	65	85	95	50	90		
Tanvi	70	75	65	85	40	60		
Tarun	65	35	50	77	80	80		

Q3. What was the aggregate of marks obtained by Sajal in all the six subjects?

A. 409

B. 419 C. 429 D. 449

Q1. The following table gives the percentage of marks obtained by seven students in six different subjects in an examination.

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	(150)	(130)	(120)	(100)	(60)	(40)		
Ayush	90	50	90	60	70	80		
Aman	100	80	80	40	80	70		
Sajal	90	60	70	70	90	70		
Rohit	80	65	80	80	60	60		
Muskan	80	65	85	95	50	90		
Tanvi	70	75	65	85	40	60		
Tarun	65	35	50	77	80	80		

Q4. In which subject is the overall percentage the best?

A. Maths

B. Chemistry

C. Physics

D. History

Q1. The following table gives the percentage of marks obtained by seven students in six different subjects in an examination.

The Numbers in the Bra	rackets give the N	/laximum Marks in Eac	h Subject.
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	Subject (Max. Marks)							
Student	Maths	Chemistry	Physics	Geography	History	Computer Science		
	(150)	(130)	(120)	(100)	(60)	(40)		
Ayush	90	50	90	60	70	80		
Aman	100	80	80	40	80	70		
Sajal	90	60	70	70	90	70		
Rohit	80	65	80	80	60	60		
Muskan	80	65	85	95	50	90		
Tanvi	70	75	65	85	40	60		
Tarun	65	35	50	77	80	80		

Q5. What is the overall marks of Tarun?

A. 52.5%

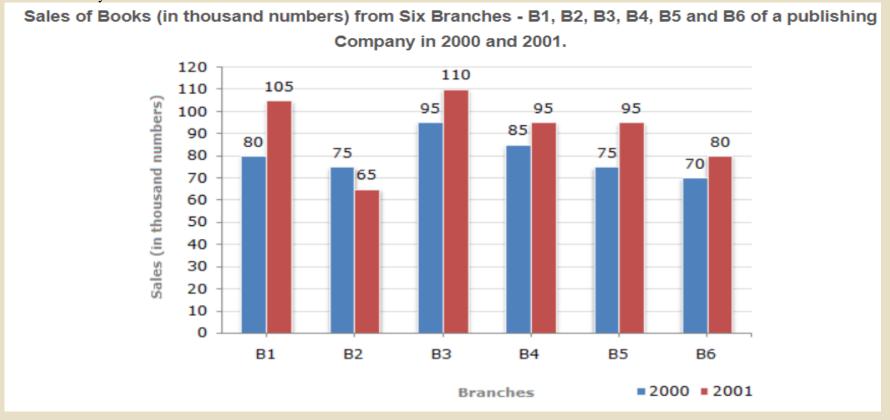
B. 55%

C. 60%

D. 63%

Bar Chart

A bar chart or bar graph is a chart or graph that presents categorical data with rectangular bars with heights or lengths proportional to the values that they represent. The bars can be plotted vertically or horizontally. A vertical bar chart is sometimes called a column chart.



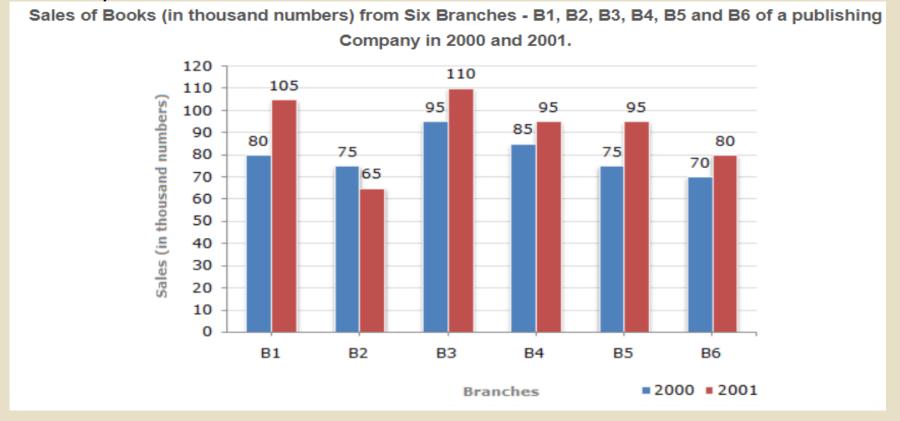
Q1. What is the ratio of the total sales of branch B2 for both years to the total sales of branch B4 for both years?

A. 2:3

B. 3:5

C. 4:5

D. 7:9



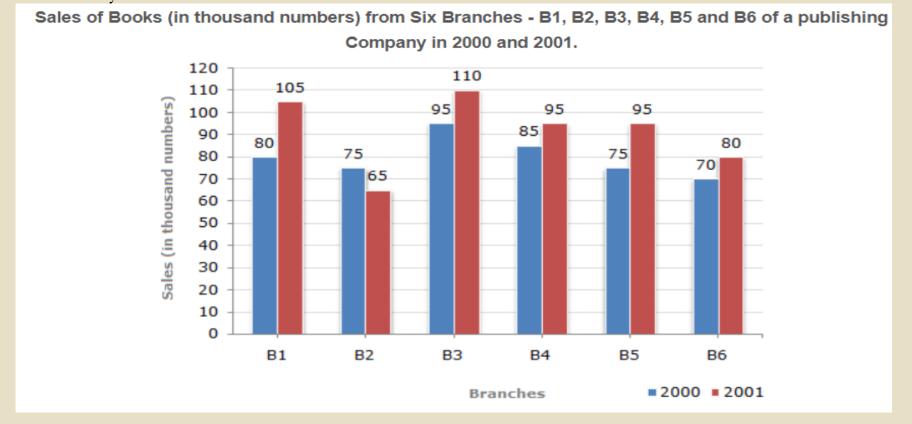
Q2. Total sales of branch B6 for both the years is what percent of the total sales of branches B3 for both the years?

A. 68.54%

B. 71.11%

C. 73.17%

D. 75.55%



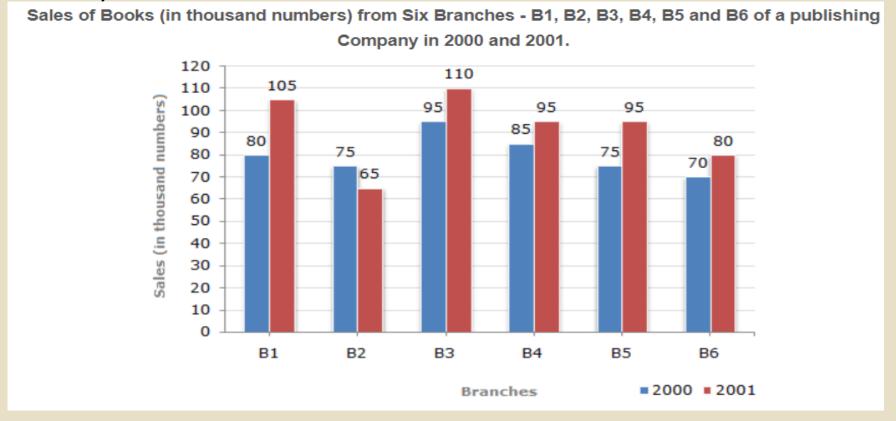
Q3. What percent of the average sales of branches B1, B2 and B3 in 2001 is the average sales of branches B1, B3 and B6 in 2000?

A. 75%

B. 77.5%

C. 82.5%

D. 87.5%

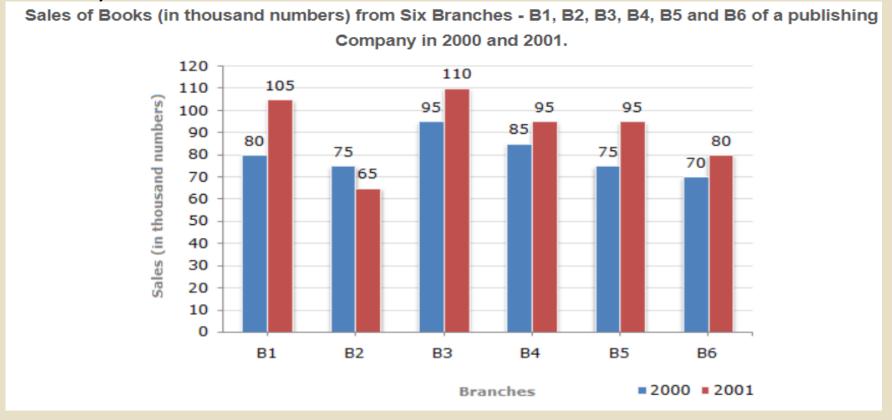


Q4. What is the average sales of all the branches (in thousand numbers) for the year 2000?

A. 73

B. 80

C. 83



Q5. Total sales of branches B1, B3 and B5 together for both the years (in thousand numbers) is?

A. 250

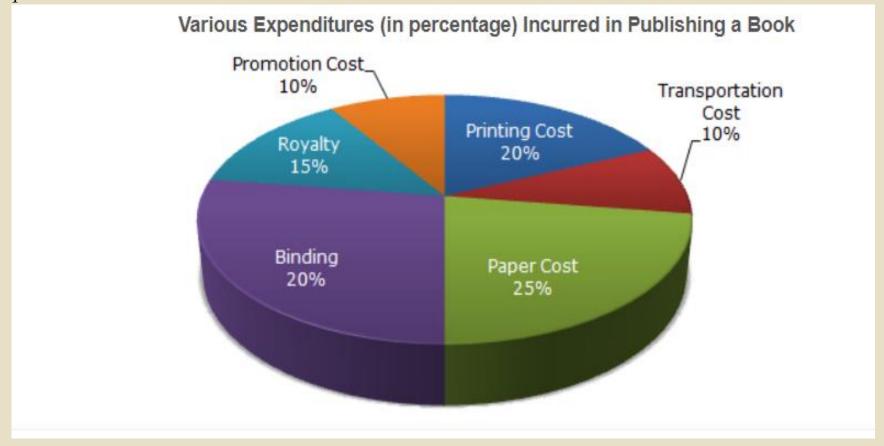
B. 310

C. 435

Pie Chart

• A Pie Chart is a type of graph that displays data in a circular graph. The pieces of the graph are proportional to the fraction of the whole in each category. In other words, each slice of the pie is relative to the size of that category in the group as a whole.

• Pie charts can be helpful for showing the relationship of parts to the whole when there are a small number of levels.



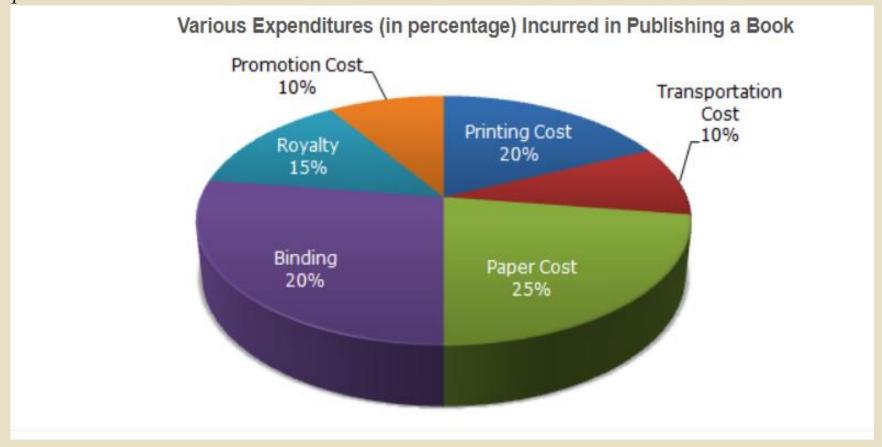
Q1. If for a certain quantity of books, the publisher has to pay Rs. 30,600 as printing cost, then what will be amount of royalty to be paid for these books?

A. Rs. 19,450

B. Rs. 21,200

C. Rs. 22,950

D. Rs. 26,150



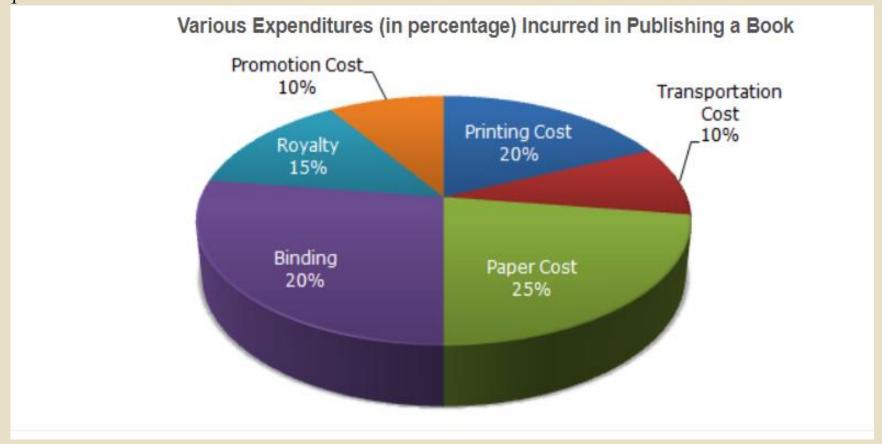
Q2. What is the central angle of the sector corresponding to the expenditure incurred on Royalty?

A. 15°

B. 24°

C. 54°

D. 48°



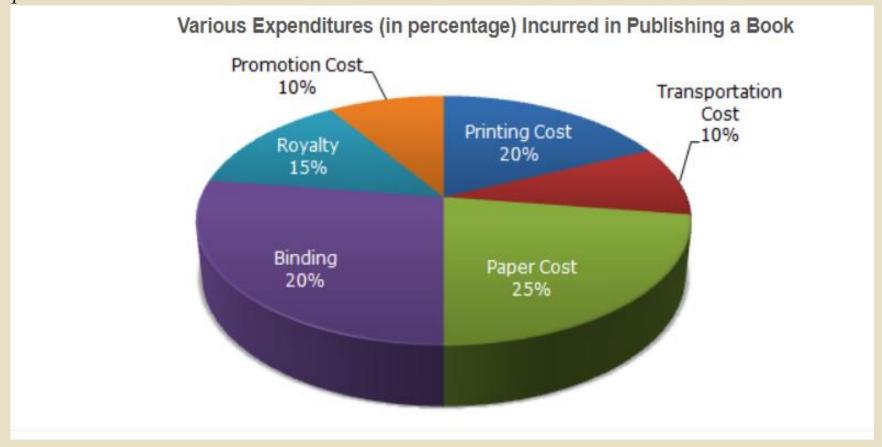
Q3. The price of the book is marked 20% above the C.P. If the marked price of the book is Rs. 180, then what is the cost of the paper used in a single copy of the book?

A. Rs. 36

B. Rs. 37.50

C. Rs. 42

D. Rs. 44.25

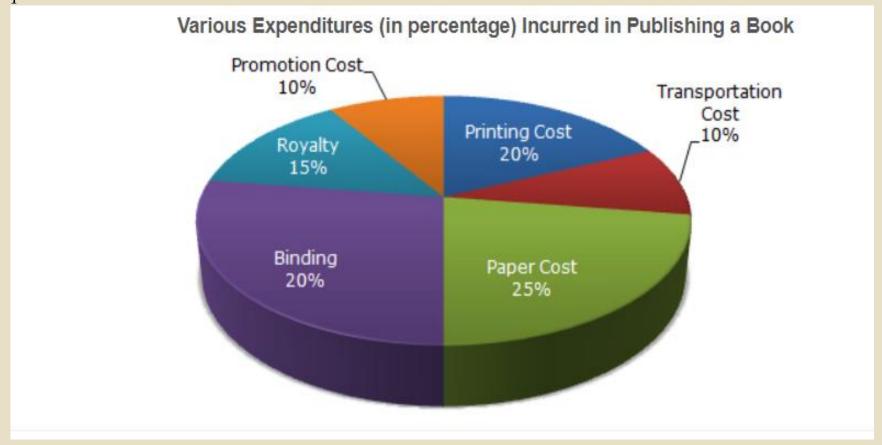


Q4. If 5500 copies are published and the transportation cost on them amounts to Rs. 82500, then what should be the selling price of the book so that the publisher can earn a profit of 25%?

A. Rs. 187.50

B. Rs. 191.50 C. Rs. 175

D. Rs. 180



Q5. Royalty on the book is less than the printing cost by:

A. 5%

B. 33(1/5) %

C. 20%

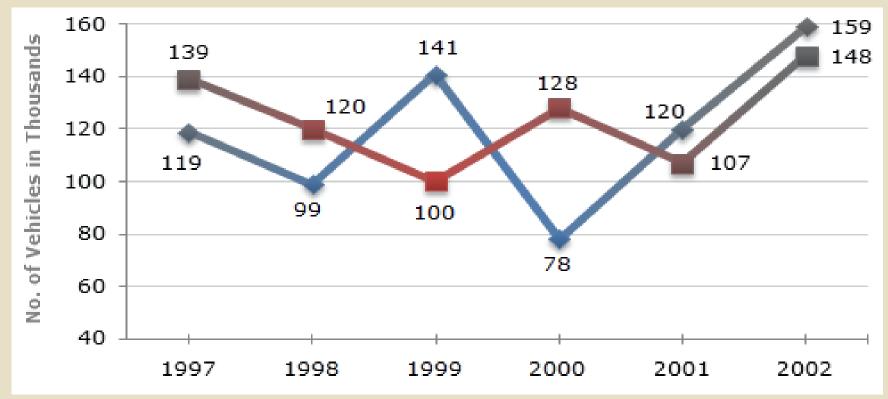
D. 25%

Line Chart

• A line chart is a type of chart that displays information as a series of data points connected by straight line segments. A line chart is a way of visually representing an asset's price history using a single, continuous line.

Number of Vehicles Manufactured by Two companies over the Years (Number in Thousands)

(Rectangle = Company Y , Diamond= Company X)



Q1. What is the difference between the number of vehicles manufactured by Company Y in 2000 and 2001?

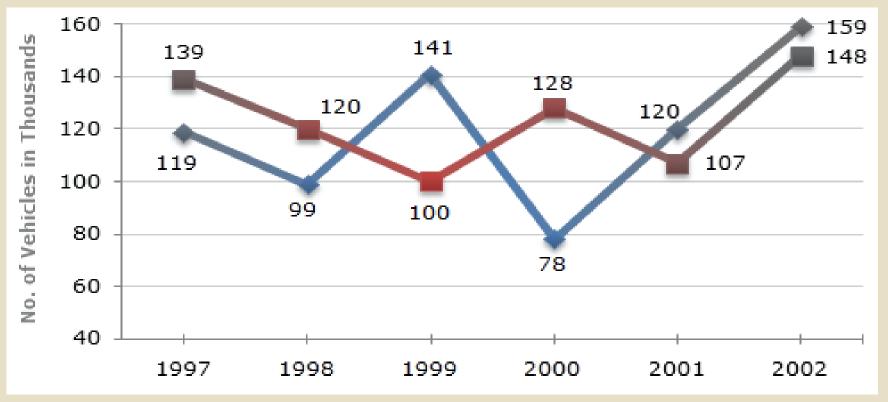
A. 50000

B. 42000

C. 33000

Number of Vehicles Manufactured by Two companies over the Years (Number in Thousands)

(Rectangle = Company Y , Diamond= Company X)



Q2. What is the difference between the total productions of the two Companies in the given years?

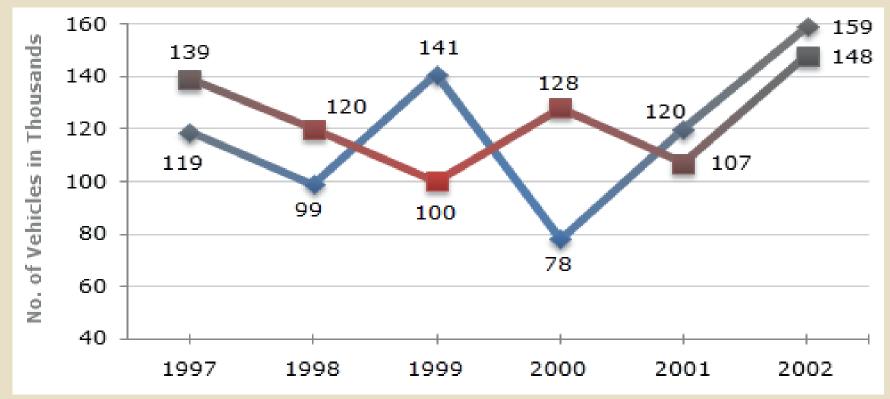
A. 19000

B. 22000

C. 26000

Number of Vehicles Manufactured by Two companies over the Years (Number in Thousands)

(Rectangle = Company Y , Diamond= Company X)



Q3. What is the average numbers of vehicles manufactured by Company X over the given period? (rounded off to nearest integer)

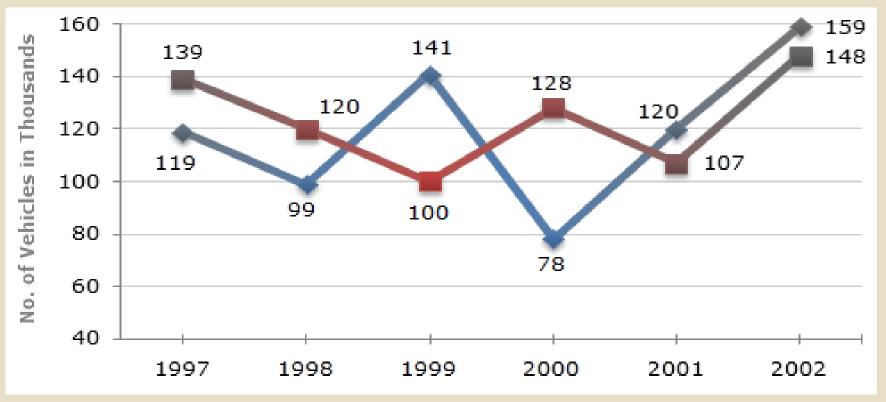
A. 119333

B. 113666

C. 112778

Number of Vehicles Manufactured by Two companies over the Years (Number in Thousands)

(Rectangle = Company Y , Diamond= Company X)



Q4. In which of the following years, the difference between the productions of Companies X and Y was the maximum among the given years?

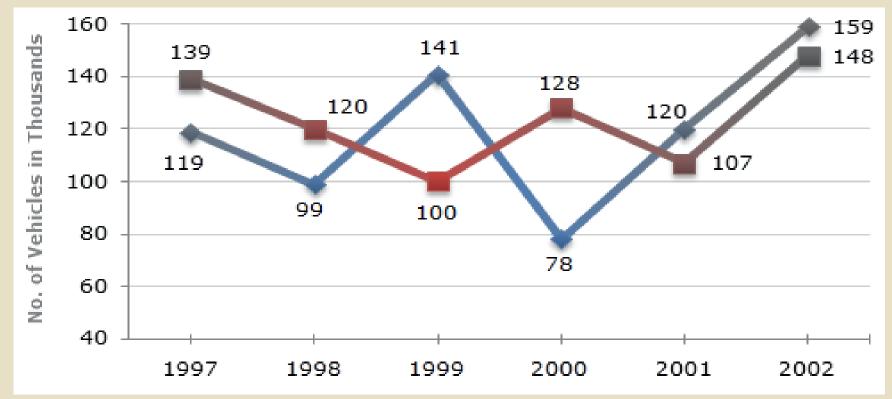
A. 1997

B. 1998

C. 1999

Number of Vehicles Manufactured by Two companies over the Years (Number in Thousands)

(Rectangle = Company Y , Diamond= Company X)



Q5. The production of Company Y in 2000 was approximately what percent of the production of Company X in the same year?

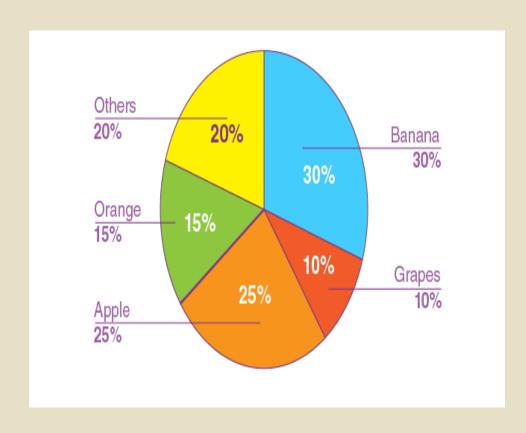
A. 173

B. 164

C. 132

Question:

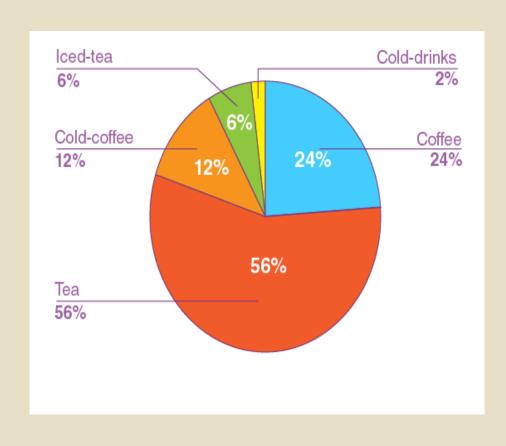
The below pie chart shows the sale of different fruits in a day for a shop:



- Answer the following questions based on the pie chart:
- (i) If a total of 1200 kg of fruits were sold in a day, calculate the amount of bananas sold (in kg).
- (ii) Find the difference between sales of grapes and oranges.
- (iii) Calculate the central angle for others.

Question:

In the summer, a survey was conducted among 400 people about their favourite beverages. The following pie chart shows the data:



- Answer the following questions:
- (i) How many people like tea?
- (ii) How many more people like coffee than cold coffee?
- (iii) What is the total central angle for iced tea and cold-drinks?