



# MATHS

## BOOKS - MTG IIT JEE FOUNDATION

### DATA HANDLING

#### Illustrations

1. Given below is the marks obtained by 30 students in a unit test of class VI, out of 50.

32, 48, 40, 31, 40, 32, 25, 42, 39, 15, 48, 32, 25, 22,

32, 25, 19, 31, 48, 32, 42, 15, 25, 19, 32, 31, 25, 48, 22, 15, Represent the data in a tabular form using tally marks.



[Watch Video Solution](#)

2. Priya is playing with a die. She noted the number comes up each time after throwing it. The number appeared on the dice each time is shown below.

2 3 5 6 6 6 6 6 6 3 5 2 4  
1 3 3 5 5 4 4 6 6 3 3 2

Make a table using tally marks and answer the

following questions.

Which number on the dice appears minimum number of times ?



[Watch Video Solution](#)

3. Priya is playing with a die. She noted the number comes up each time after throwing it.

The number appeared on the dice each time is shown below.

2	3	5	6	6	6	6	6	6	3	5	2	4
1	3	3	5	5	4	4	6	6	3	3	2	

Make a table using tally marks and answer the

following questions.

Which number on the dice appeared maximum number of times ?



[Watch Video Solution](#)

4. Priya is playing with a die. She noted the number comes up each time after throwing it.

The number appeared on the dice each time is shown below.

2 3 5 6 6 6 6 6 6 3 5 2 4

1 3 3 5 5 4 4 6 6 3 3 2

Make a table using tally marks and answer the

following questions.

How many times the number '4' appeared ?



**Watch Video Solution**

5. Following data shows the favourite fast food of 20 students of class VI.

Burger, Burger, Pizza, Momos, Sandwich,  
Momos, Pizza, Burger, Sandwich, Burger, Pizza,  
Pizza, Sandwich, Momos, Burger, Sandwich,  
Momos , Pizza, Sandwich, Burger.

Prepare a table using tally marks and answer

the following questions.

Which two fast foods are liked equally by the students ?



[Watch Video Solution](#)

6. Following data shows the favourite fast food of 20 students of class VI.

Burger, Burger, Pizza, Momos, Sandwich,  
Momos, Pizza, Burger, Sandwich, Burger, Pizza,  
Pizza, Sandwich, Momos, Burger, Sandwich,  
Momos , Pizza, Sandwich, Burger.

Prepare a table using tally marks and answer the following questions.

Which fast food is liked most by the students ?



[Watch Video Solution](#)

7. Following data shows the favourite fast food of 20 students of class VI.

Burger, Burger, Pizza, Momos, Sandwich,  
Momos, Pizza, Burger, Sandwich, Burger, Pizza,  
Pizza, Sandwich, Momos, Burger, Sandwich,  
Momos , Pizza, Sandwich, Burger.

Prepare a table using tally marks and answer the following questions.





Which fast food is liked least by the students ?




[Watch Video Solution](#)

8. The pictograph shows the number of bicycles made by a factory during the four weeks of a month. Answer the following questions.



Weeks	Number of bicycles
1 <sup>st</sup>	
2 <sup>nd</sup>	
3 <sup>rd</sup>	
4 <sup>th</sup>	

Each  represents 100 bicycles.





How many bicycles were made by the factory during 1<sup>st</sup> week ?




[Watch Video Solution](#)

9. The pictograph shows the number of bicycles made by a factory during the four

weeks of a month. Answer the following questions.

Weeks	Number of bicycles
1 <sup>st</sup>	
2 <sup>nd</sup>	
3 <sup>rd</sup>	
4 <sup>th</sup>	





Each  represents 100 bicycles.


What is the difference between the number of bicycles made during 3<sup>rd</sup> week and 4<sup>th</sup> week ?



[Watch Video Solution](#)

10. The pictograph shows the number of bicycles made by a factory during the four weeks of a month. Answer the following questions.

Weeks	Number of bicycles
1 <sup>st</sup>	
2 <sup>nd</sup>	
3 <sup>rd</sup>	
4 <sup>th</sup>	

Each  represents 100 bicycles.

In which week maximum number of bicycles were made ?



[Watch Video Solution](#)

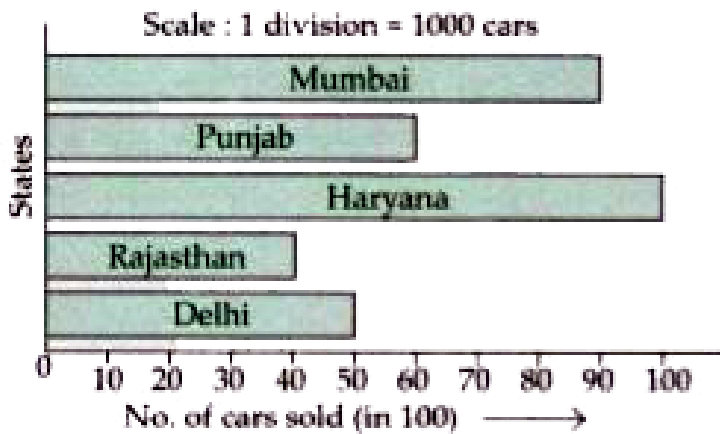
11. Prepare a pictograph for the given data that shows the pocket money of six children.

Name	Shivani	Pooja	Jyoti	Preeti	Jatin	Rohit
Money (in ₹)	500	800	900	600	600	600



[Watch Video Solution](#)

12. The given bar graph represents the sale of cars in five different states in a month.

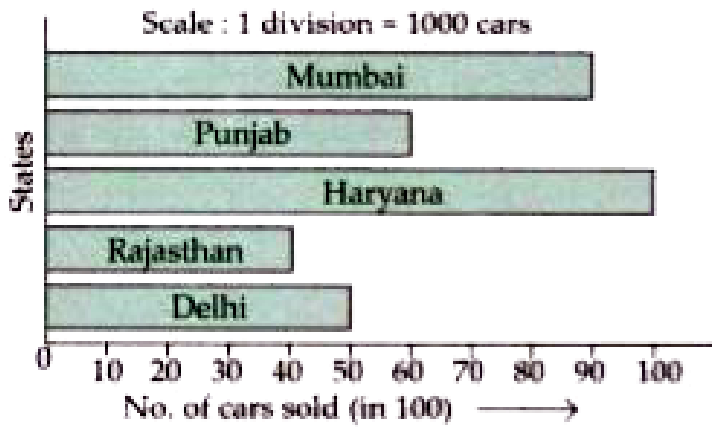


Which state sold maximum number of cars ?



[Watch Video Solution](#)

**13.** The given bar graph represents the sale of cars in five different states in a month.



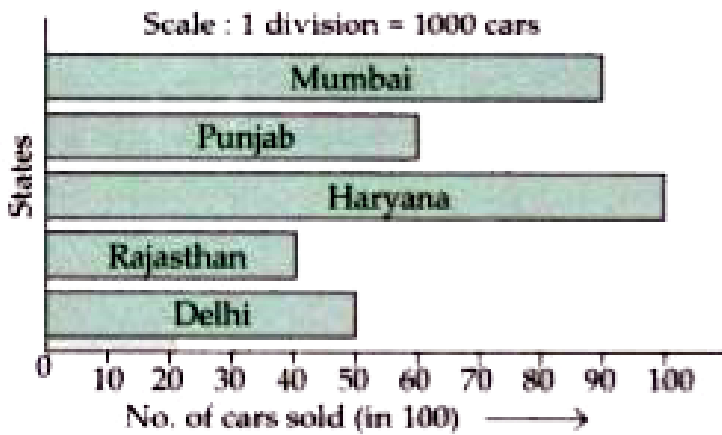
What is

the difference between the number of cars sold in Mumbai and Punjab ?



[Watch Video Solution](#)

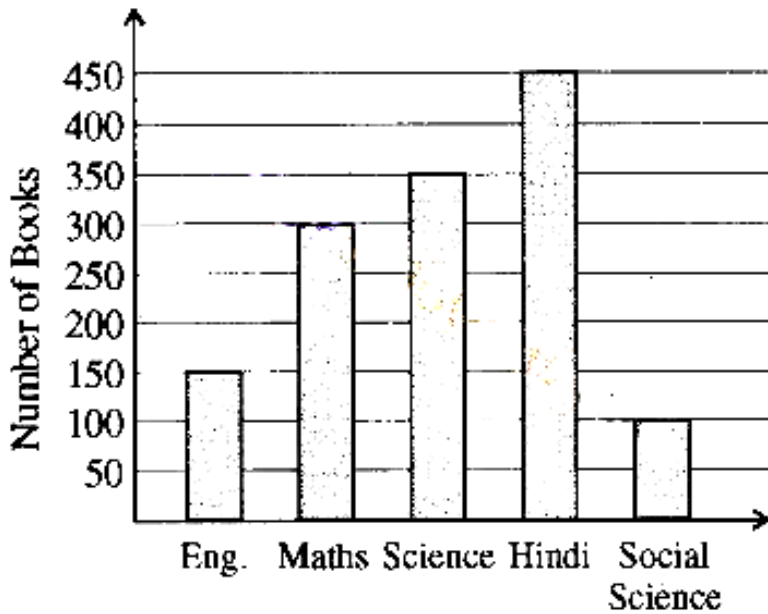
**14.** The given bar graph represents the sale of cars in five different states in a month.



Which state sold 5000 cars ?

 [Watch Video Solution](#)

**15.** Given bar graph shows the number of books of different subjects kept in a library. Study it and answer the following questions :



How many Hindi books are kept in the library ?

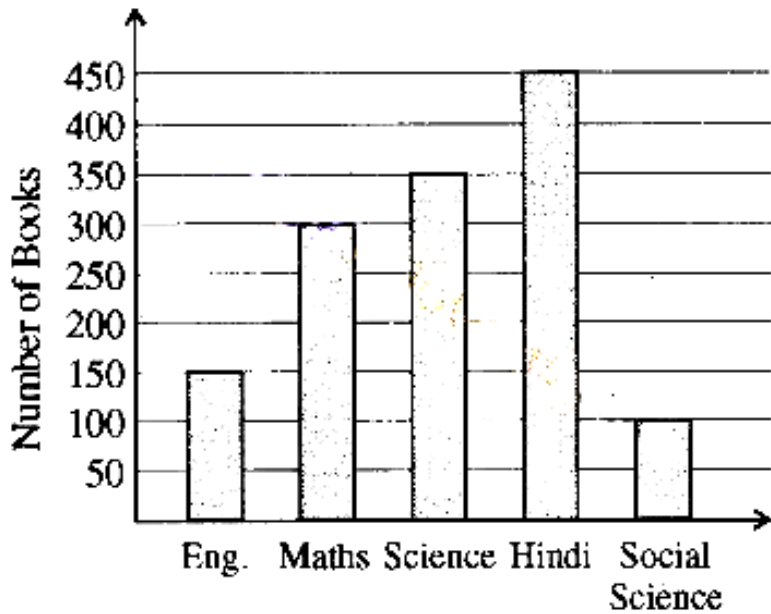


[Watch Video Solution](#)

**16.** Given bar graph shows the number of books of difference subjects kept in a library.

Study it and answer the following questions :





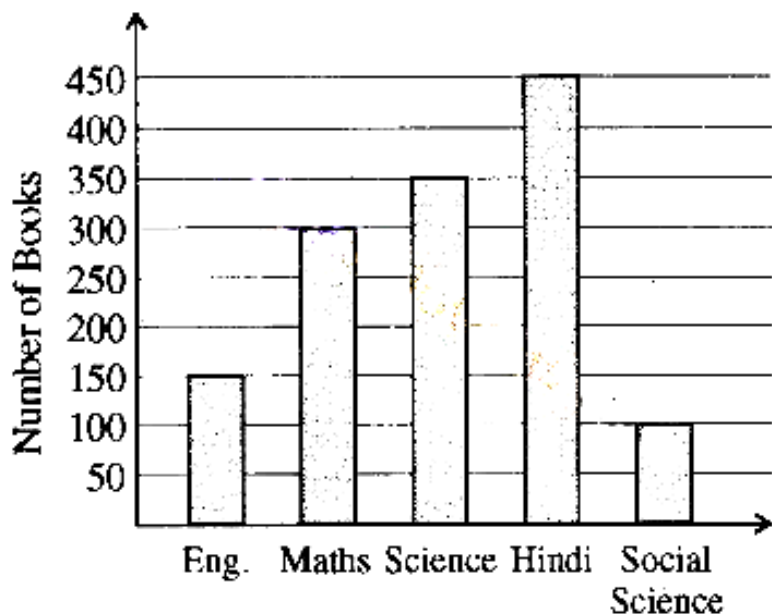
Are number of books of Science more than that of Mathematics ? If yes, then by how much ?



[Watch Video Solution](#)

17. Given bar graph shows the number of books of different subjects kept in a library.

Study it and answer the following questions :



Which subject has minimum number of books in the library ?



[Watch Video Solution](#)

**18.** The table represents number of tourists visiting a zoo for 5 months.

Months	January	February	March	April	May
Number of tourists	120	180	270	150	120

Make a bar graph representing the above information.



**Watch Video Solution**

19. The are cultivated under different crops in a year was as follows.

Crops	Area (in hectares)
Wheat	24
Pulses	26
Other cereals	40
Oil seeds	18
Sugarcane	4
Cotton	8

Which crop was cultivated in the smallest area ?



[Watch Video Solution](#)

20. Look at the frequency chart representing the number of books read by the class in the past month.

<b>Number of students</b>	2	6	9	10	4	1
<b>Books read</b>	1	2	3	4	5	6

How many students read at least 4 books.



[Watch Video Solution](#)

Solved Examples

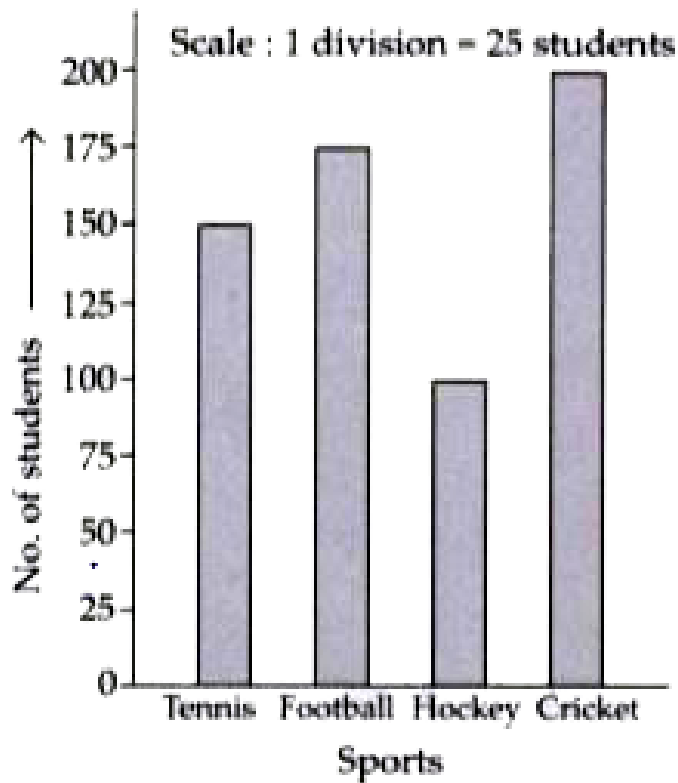
1. In a survey of 20 families, each family is found to have the following number of children. 1, 2, 2, 3, 2, 3, 3, 4, 1, 1, 4, 4, 2, 2, 3, 1, 5, 1, 1, 2

Represent the data in tabular form using tally marks.



[Watch Video Solution](#)

2. Study the bar graph and answer the following questions.

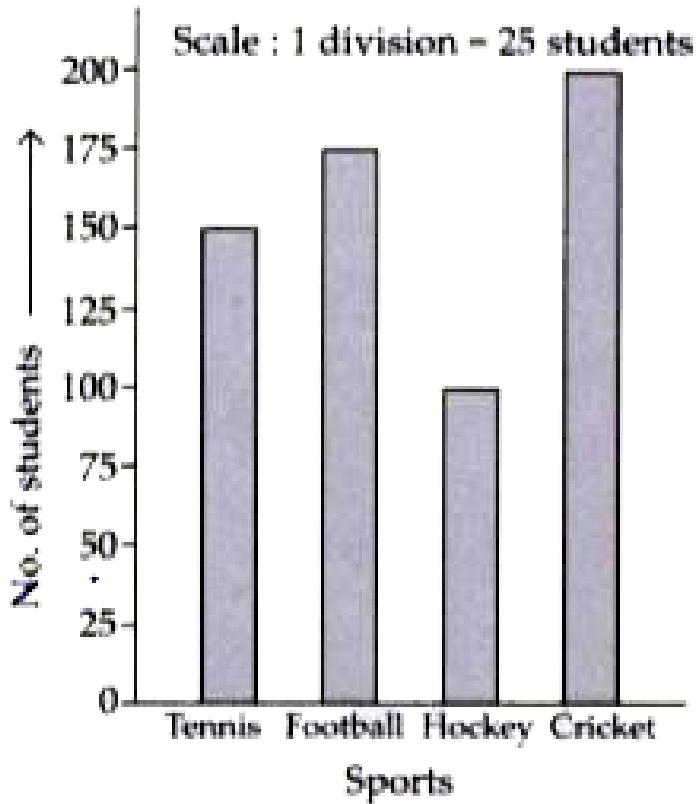


Which is the most popular sport ?



[Watch Video Solution](#)

3. Study the bar graph and answer the following questions.



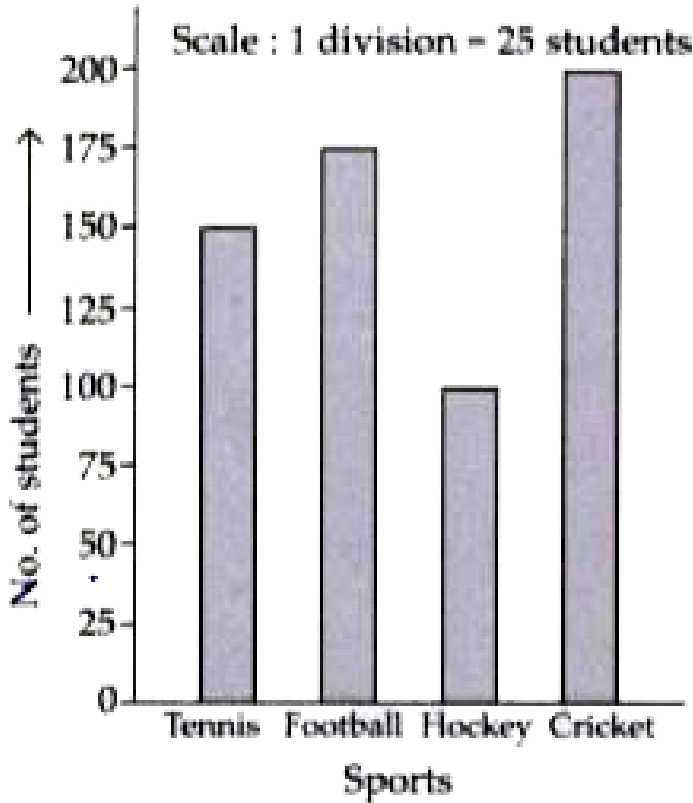
Which sport is preferred least ?



[Watch Video Solution](#)



4. Study the bar graph and answer the following questions.











What is the difference between number of students playing football and hockey ?



**Watch Video Solution**

5. The sale of number of dolls on different days of a week in a shopping mall is shown below :

Days	Number of dolls
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	
Sunday	
Each  represents 20 dolls	

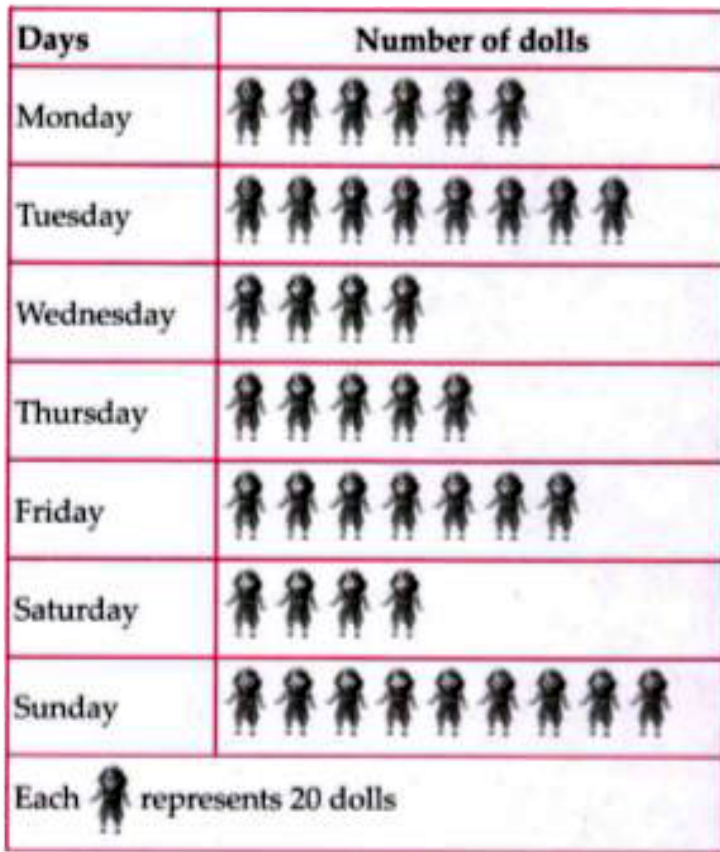
Observe the pictograph and answer the following questions.

How many dolls were sold on Tuesday ?



[Watch Video Solution](#)

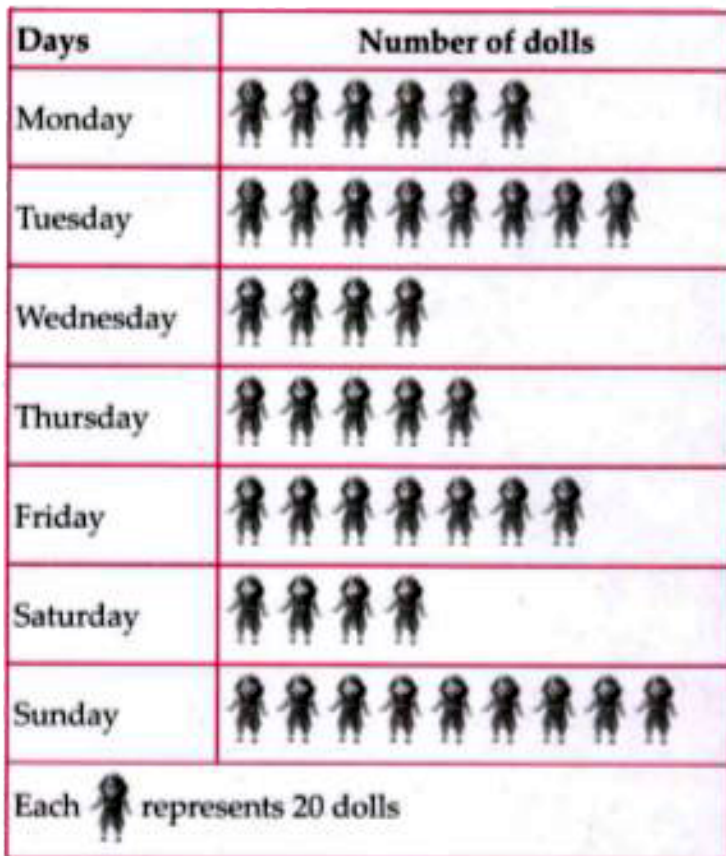
6. The sale of number of dolls on different days of a week in a shopping mall is shown below :



Observe the pictograph and answer the following questions.

On which day maximum number of dolls were sold ?

7. The sale of number of dolls on different days of a week in a shopping mall is shown below :



Observe the pictograph and answer the










following questions.

Find the total number of dolls sold in first three days of the week.



[Watch Video Solution](#)

**8.** The number of benches in each class of a school is depicted by the pictograph.










Classes	Number of benches
I	
II	
III	
IV	
V	
VI	
VII	
VIII	
Each  represents 4 benches	

Observe the pictograph and answer the following questions.

How many benches are there in class VI ?

 **Watch Video Solution**

9. The number of benches in each class of a school is depicted by the pictograph.

Classes	Number of benches
I	
II	
III	
IV	
V	
VI	
VII	
VIII	
Each  represents 4 benches	

Observe the pictograph and answer the following questions.

Which class has maximum number of benches












? Also, find the number of benches in that class ?



**Watch Video Solution**

**10.** The number of benches in each class of a school is depicted by the pictograph.

Classes	Number of benches
I	
II	
III	
IV	
V	
VI	
VII	
VIII	
Each  represents 4 benches	

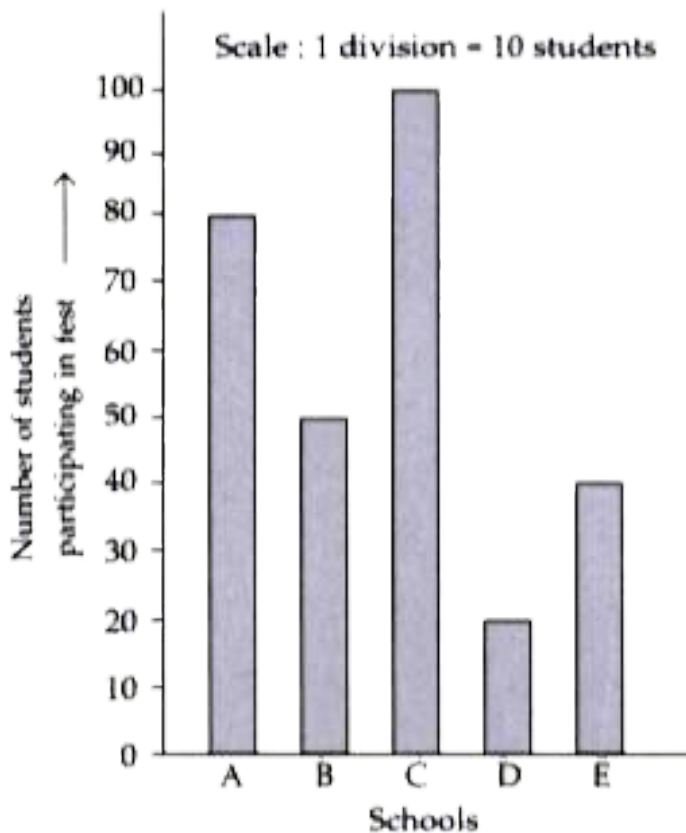
Observe the pictograph and answer the following questions.

Which class has least number of benches ?



**Watch Video Solution**

11. Read the bar graph and answer the questions.

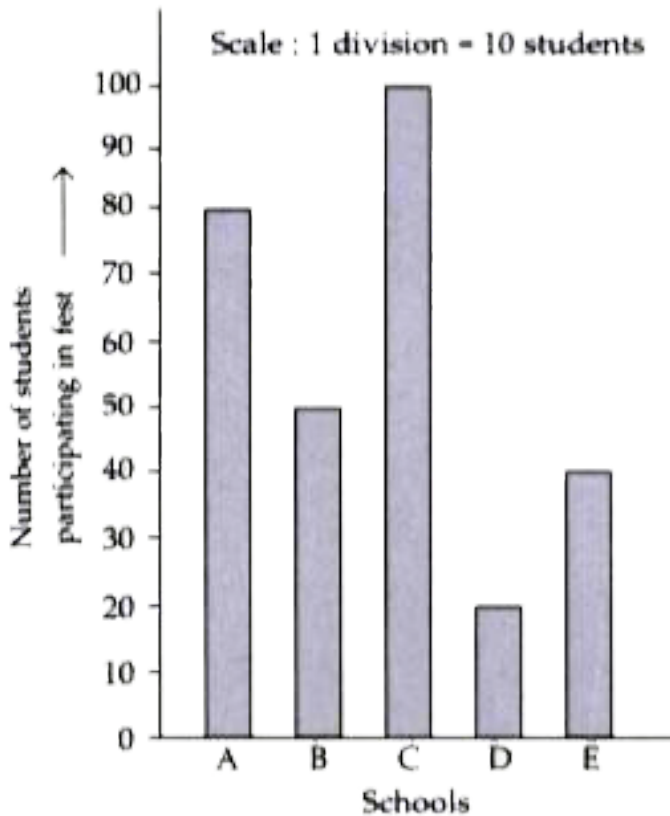


From which school 80 students participated ?



[Watch Video Solution](#)

12. Read the bar graph carefully and answer the following questions.

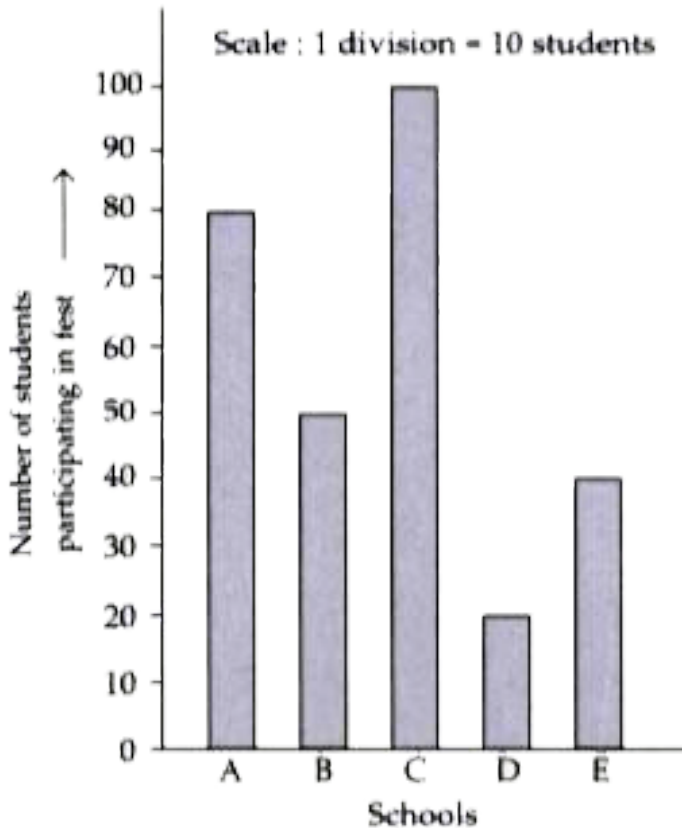


How many

students of school B participated in the fest ?



13. Read the bar graph carefully and answer the following questions.



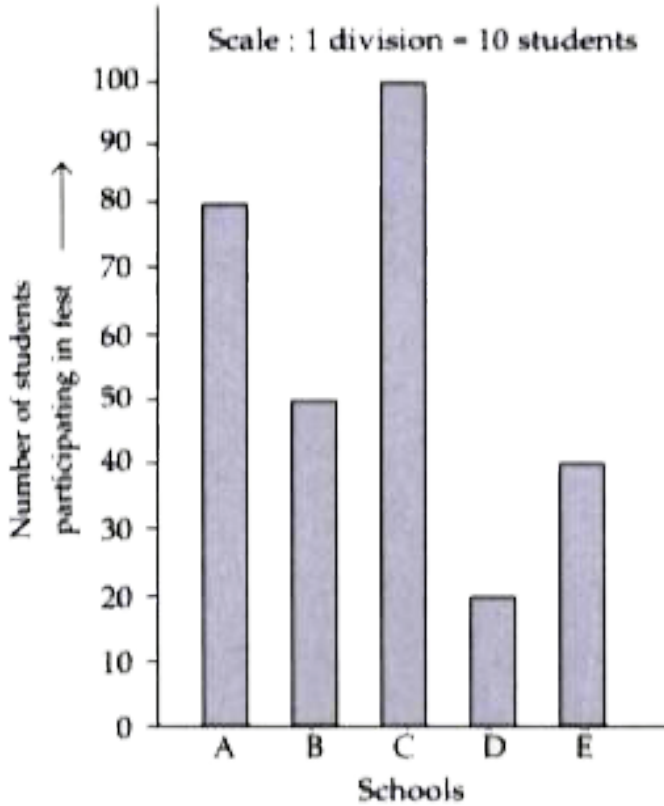
From

which school maximum number of students participated ?



**Watch Video Solution**

**14.** Read the bar graph carefully and answer the following questions.









What is

the difference between the number of students participated from school C and D ?



[Watch Video Solution](#)

15. In a village, fruit sellers sold the following number of watermelons in a particular week.

Name	Number of watermelons sold
Sohan	
Shyamlal	
Ramu	
Ranjit	
Suresh	
Each  represents 10 watermelons	







Which fruit seller sold the minimum number of watermelons ?



[Watch Video Solution](#)



16. In a village, fruit sellers sold the following number of watermelons in a particular week.







Name	Number of watermelons sold
Sohan	
Shyamlal	
Ramu	
Ranjit	
Suresh	
Each  represents 10 watermelons	

How many watermelons were sold by Suresh ?



[Watch Video Solution](#)

17. In a village, fruit sellers sold the following number of watermelons in a particular week.

Name	Number of watermelons sold
Sohan	
Shyamlal	
Ramu	
Ranjit	
Suresh	
Each  represents 10 watermelons	

The sellers who have sold 60 or more number of watermelons are?



[Watch Video Solution](#)

**18.** The weights (in kg) of 22 students of a class are given below.

44, 46., 42, 40, 44, 44, 46, 43, 43, 44, 42, 46, 44,  
43, 43, 42, 40, 40, 44, 46, 46, 44

Represent the data in tabular form using tally marks.



**Watch Video Solution**

**19.** The following data shows the number of students born in different months of a particular year of class VI. Make the bar graph

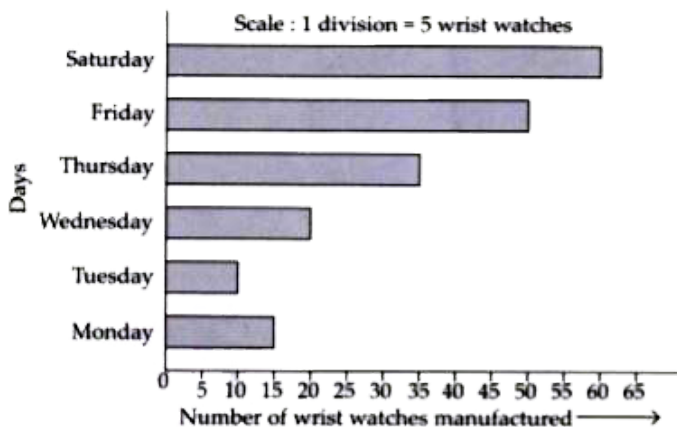
based on the given information.

Months	Jan	Feb	Mar	Apr	May	June	July	Aug	Sep	Oct	Nov	Dec
No. of students born	2	0	4	1	2	3	2	1	5	3	2	1



[Watch Video Solution](#)

20. Number of wrist watches manufactured by a factory in six days of a particular week is given below.



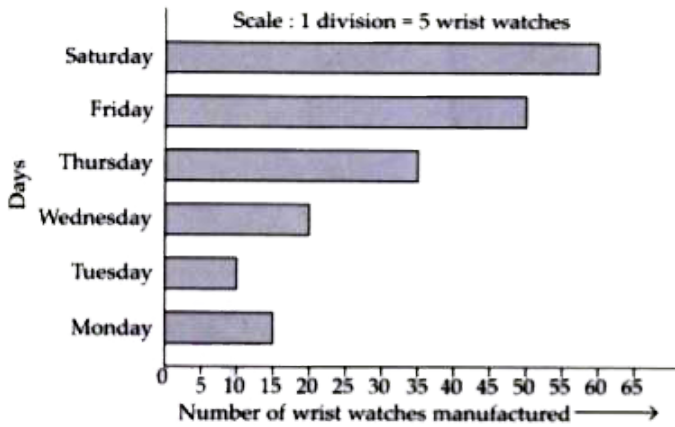
Read the bar graph and answer the following questions.

What information does the bar graph gives ?



**Watch Video Solution**

**21.** Number of wrist watches manufactured by a factory in six days of a particular week is given below.



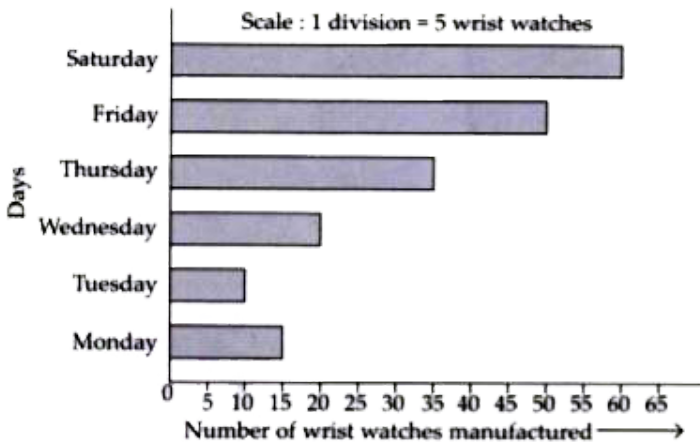
Read the bar graph and answer the following questions.

On which day, the maximum number of wrist watches were manufactured ? How many wrist watches were manufactured on that day ?



[Watch Video Solution](#)

22. Number of wrist watches manufactured by a factory in six days of a particular week is given below.

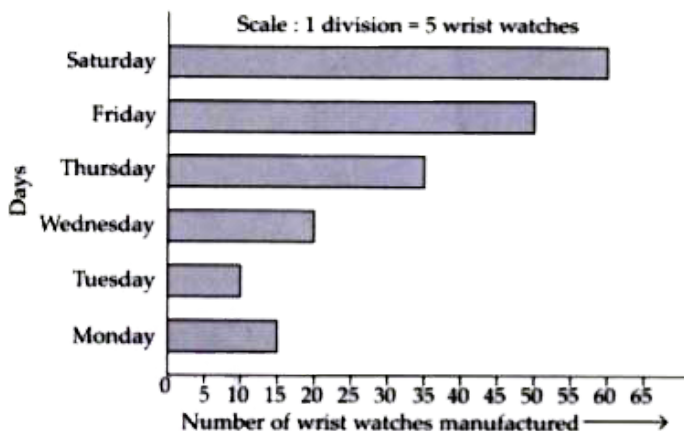


Read the bar graph and answer the following questions.

On which day, the minimum number of wrist watches were manufactured ?



23. Number of wrist watches manufactured by a factory in six days of a particular week is given below.



Read the bar graph and answer the following questions.



How many wrist watches were manufactured on Tuesday ?



[Watch Video Solution](#)

Classes	Number of students going to picnic
I	25
II	20
III	23
IV	5
V	20
VI	15






24.


Observe the table above and calculate total number of students from class III and VI are going to the picnic.



Watch Video Solution

25. The given pictograph represents the number of students in 5 sections of class VI.

Section	Number of students
A	
B	
C	
D	
E	

Each  represents 6 students







Study the given pictograph and answer the following questions.

How many students are there in section E ?



Watch Video Solution

26. The given pictograph represents the number of students in 5 sections of class VI.

Section	Number of students
A	
B	
C	
D	
E	
Each  represents 6 students	



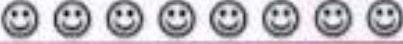


Study the given pictograph and answer the following questions.


Find the total number of students in 5 sections of Class VI.



Watch Video Solution

27. The given pictograph represents the number of students in 5 sections of class VI.

Section	Number of students
A	
B	
C	
D	
E	

Each  represents 6 students







Study the given pictograph and answer the following questions.

How many less students are there in section E than section D ?



Watch Video Solution

28. The given pictograph represents the number of students in 5 sections of class VI.

Section	Number of students
A	
B	
C	
D	
E	
Each  represents 6 students	







Study the given pictograph and answer the following questions.

Which section has 48 students ?



Watch Video Solution

29. The given pictograph represents the number of students in 5 sections of class VI.

Section	Number of students
A	
B	
C	
D	
E	
Each  represents 6 students	

Study the given pictograph and answer the following questions.

Find the difference between the number of students in section E and the total number of students in section C and D together.



[Watch Video Solution](#)

**30.** In a school library, there are books on the following subjects : English = 500, History = 700, Maths = 800, Science = 900.

Draw the pictograph for the above numerical data and answer the following questions.

How many books are there in the school library ?



[Watch Video Solution](#)

**31.** In a school library, there are books on the following subjects : English = 500, History = 700, Maths = 800, Science = 900.

Draw the pictograph for the above numerical data and answer the following questions.

Which subjects have maximum and minimum number of books ?

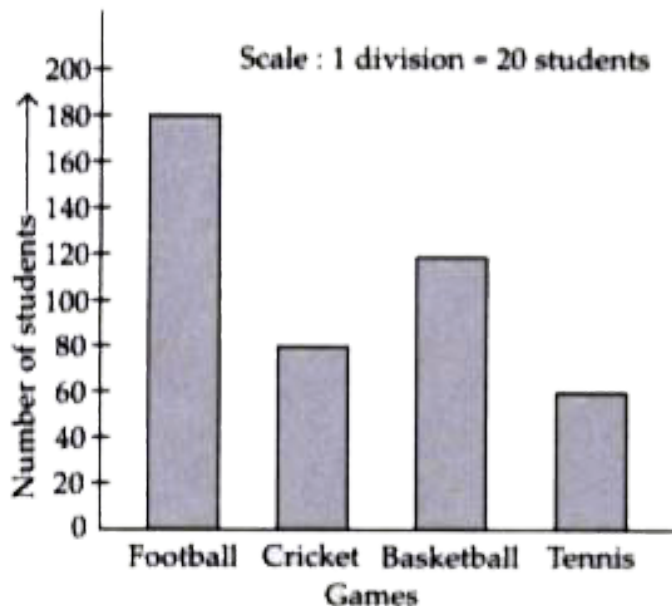


**Watch Video Solution**

**32.** Read the given bar graph, showing the number of games played by different number



of students of a school.

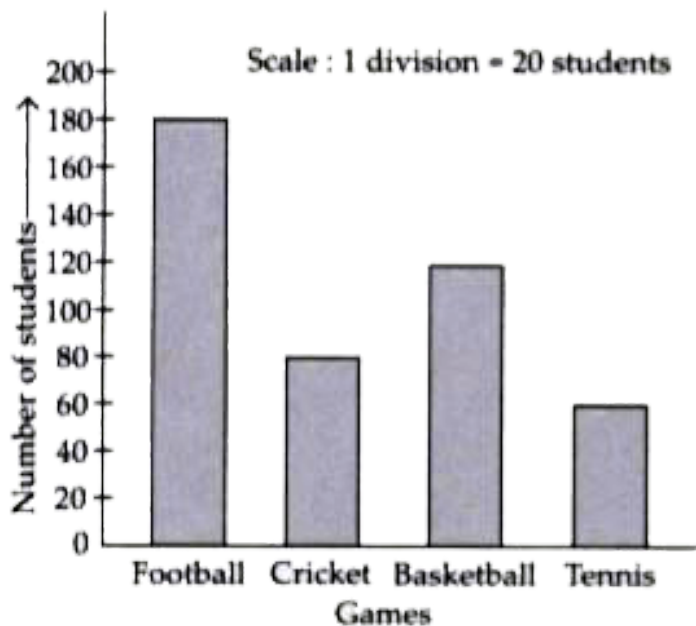


Which game is played by the maximum number of students ?



[Watch Video Solution](#)

33. Read the given bar graph, showing the number of games played by different number of students of a school.

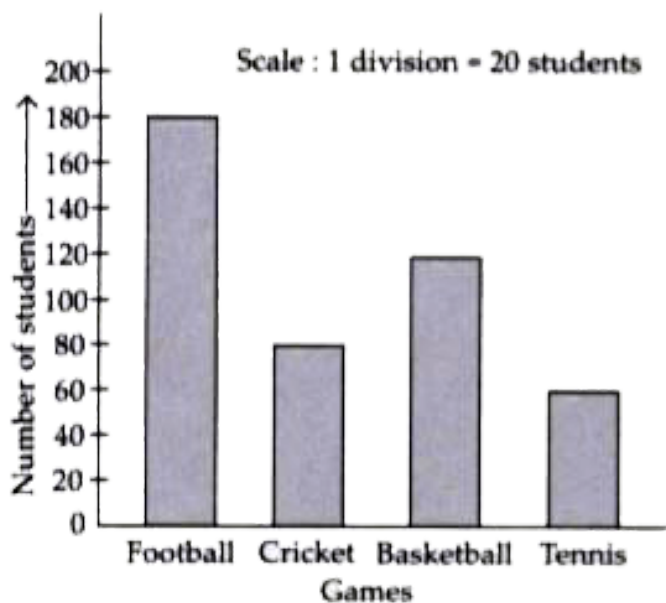


Which game is played by the minimum number of students ?



[Watch Video Solution](#)

34. Read the given bar graph, showing the number of games played by different number of students of a school.

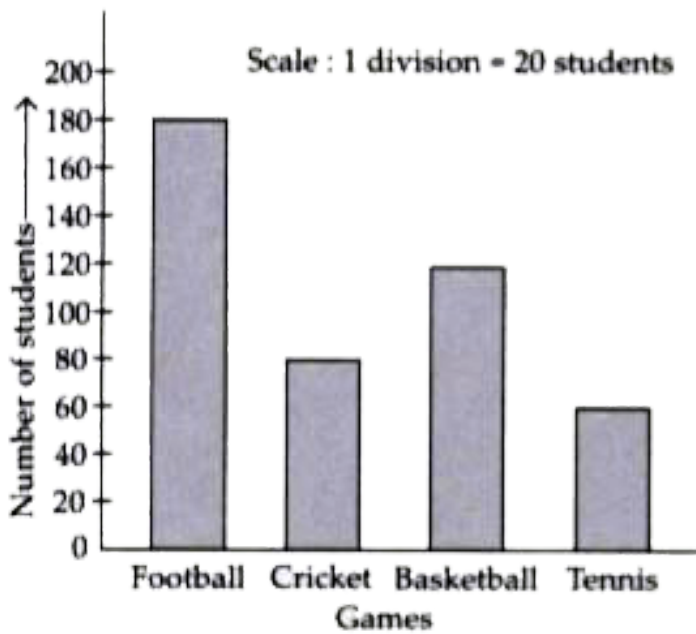


Which game is played by only 120 students ?



[Watch Video Solution](#)

35. Read the given bar graph, showing the number of games played by different number of students of a school.



How many students play Cricket and Tennis together ?



[Watch Video Solution](#)

**36.** Draw a bar graph using the data given in the following table.

<b>Years</b>	2012	2013	2014	2015	2016
<b>Number of bikes</b>	500	300	600	700	200



[Watch Video Solution](#)

**37.** The following data shows the number of students who attended the school on weekdays. Draw a bar graph to represent

information by using appropriate scale.

Days	Mon	Tue	Wed	Thu	Fri	Sat
Number of students	750	800	1100	850	1000	950



[Watch Video Solution](#)

## Ncert Section Exercise 9 1

1. In a Mathematics test, the following marks were obtained by 40 students. Arrange these

marks in a table using tally marks.

8	1	3	7	6	5	5	4	4	2
4	9	5	3	7	1	6	5	2	7
7	3	8	4	2	8	9	5	8	6
7	4	5	6	9	6	4	4	6	6



[Watch Video Solution](#)

2. In a Mathematics test, the following marks were obtained by 40 students. Arrange these marks in a table using tally marks.

8	1	3	7	6	5	5	4	4	2
4	9	5	3	7	1	6	5	2	7
7	3	8	4	2	8	9	5	8	6
7	4	5	6	9	6	4	4	6	6



Watch Video Solution

3. Following is the choice of sweets of 30 students of Class VI.

Ladoo, Barfi, Ladoo, Jalebi, Ladoo, Rasgulla,  
Jalebi, Ladoo, Barfi, ,Ladoo, Barfi, Rasgulla,  
Ladoo, Jalebi, Jalebi, Rasgulla, Ladoo, Ladoo,  
Barfi, Rasgulla, Ladoo, Rasgulla, Rasgulla, Jalebi,  
Rasgulla, Ladoo, Rasgulla, Jalebi, Jalebi, Ladoo.

Arrange the names of sweets in a table using tally marks.



Watch Video Solution



4. Following is the choice of sweets of 30 students of Class VI. Ladoo, Barfi, Ladoo, Jalebi, Ladoo, Rasgulla, Jalebi, Ladoo, Barfi, Rasgulla, Ladoo, Jalebi, Jalebi, Rasgulla, Ladoo, Rasgulla, Jalebi, Ladoo, Rasgulla, Ladoo, Ladoo, Barfi, Rasgulla, Ras



**Watch Video Solution**

5. Catherine threw a dice 40 times and noted the number appearing each time as shown below :

1	3	5	6	6	3	5	4	1	6
2	5	3	4	6	1	5	5	6	1
1	2	2	3	5	2	4	5	5	6
5	1	6	2	3	5	2	4	1	5

Make a table and enter the data using tally marks. Find the number that appeared the minimum number of times.



[Watch Video Solution](#)

6. Catherine threw a dice 40 times and noted the number appearing each time as shown below :

1	3	5	6	6	3	5	4	1	6
2	5	3	4	6	1	5	5	6	1
1	2	2	3	5	2	4	5	5	6
5	1	6	2	3	5	2	4	1	5

Make a table and enter the data using tally marks. Find the number that appeared the maximum number of times.



[Watch Video Solution](#)

7. Catherine threw a dice 40 times and noted the number appearing each time as shown below :

1	3	5	6	6	3	5	4	1	6
2	5	3	4	6	1	5	5	6	1
1	2	2	3	5	2	4	5	5	6
5	1	6	2	3	5	2	4	1	5

Make a table and enter the data using tally marks. Find the number that appeared.

Find those numbers that appear an equal number of times.



[Watch Video Solution](#)

8. Following pictograph shows the number of tractors in five villages.

Villages	Number of tractors	☞-1 Tractor
Village A	☞ ☞ ☞ ☞ ☞ ☞	

Village B	☞ ☞ ☞ ☞ ☞	
Village C	☞ ☞ ☞ ☞ ☞ ☞ ☞ ☞	
Village D	☞ ☞ ☞	
Village E	☞ ☞ ☞ ☞ ☞ ☞	

Observe the pictograph and answer the following questions.

Which village has the minimum number of tractors ?



[Watch Video Solution](#)

9. Following pictograph shows the number of tractors in five villages.

Villages	Number of tractors	☛-1 Tractor
Village A	☛ ☛ ☛ ☛ ☛ ☛	

Village B	☛ ☛ ☛ ☛ ☛	
Village C	☛ ☛ ☛ ☛ ☛ ☛ ☛ ☛	
Village D	☛ ☛ ☛	
Village E	☛ ☛ ☛ ☛ ☛ ☛	

Observe the pictograph and answer the following questions.

Which village has the maximum number of tractors.



Watch Video Solution

10. Following pictograph shows the number of tractors in five villages.

Villages	Number of tractors	☛-1 Tractor
Village A	☛ ☛ ☛ ☛ ☛ ☛	

Village B	☛ ☛ ☛ ☛ ☛	
Village C	☛ ☛ ☛ ☛ ☛ ☛ ☛ ☛	
Village D	☛ ☛ ☛	
Village E	☛ ☛ ☛ ☛ ☛ ☛	

Observe the pictograph and answer the following questions.

How many more tractors village C has a compared to village B ?



Watch Video Solution

11. Following pictograph shows the number of tractors in five villages.

Villages	Number of tractors	☛-1 Tractor
Village A	☛ ☛ ☛ ☛ ☛ ☛	

Village B	☛ ☛ ☛ ☛ ☛	
Village C	☛ ☛ ☛ ☛ ☛ ☛ ☛ ☛	
Village D	☛ ☛ ☛	
Village E	☛ ☛ ☛ ☛ ☛ ☛	

Observe the pictograph and answer the following questions.










What is the total number of tractors in all the five villages ?





Watch Video Solution

12. The number of girl students in each class of a co-educational middle school is depicted by the pictograph.










Classes	Number of girl students	 - 4 Girls
I		
II		
III		
IV		
V		
VI		
VII		
VIII		

Observe this pictograph and answer the following questions :

Which class has the minimum number of girl students ?

 [Watch Video Solution](#)

**13.** The number of girl students in each class of a co-educational middle school is depicted by the pictograph.

Classes	Number of girl students	 - 4 Girls
I		
II		
III		
IV		
V		
VI		
VII		
VIII		


































Observe this pictograph and answer the following questions :

Is the number of girls in Class VI less than the number of girls in Class V ?



[Watch Video Solution](#)

**14.** The number of girl students in each class of a co-educational middle school is depicted by the pictograph.

Classes	Number of girl students	 - 4 Girls
I	     	
II	    	
III	    	
IV	   	
V	  	
VI	   	
VII	  	
VIII	 	













































Observe this pictograph and answer the following questions :

How many girls are there in Class VII ?



**Watch Video Solution**

15. The sale of electric bulbs on different days of week is shown below :

Days	Number of electric bulbs	 - 2 Bulbs
Monday	     	
Tuesday	       	
Wednesday	   	
Thursday	    	
Friday	      	
Saturday	   	
Sunday	        	

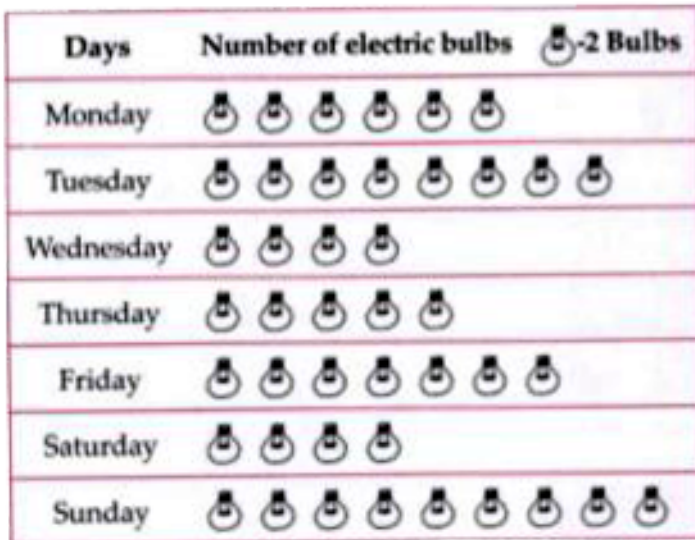
Observe the pictograph and answer the following questions :

How many bulbs were sold on Friday ?



**Watch Video Solution**

16. The sale of electric bulbs on different days of week is shown below :



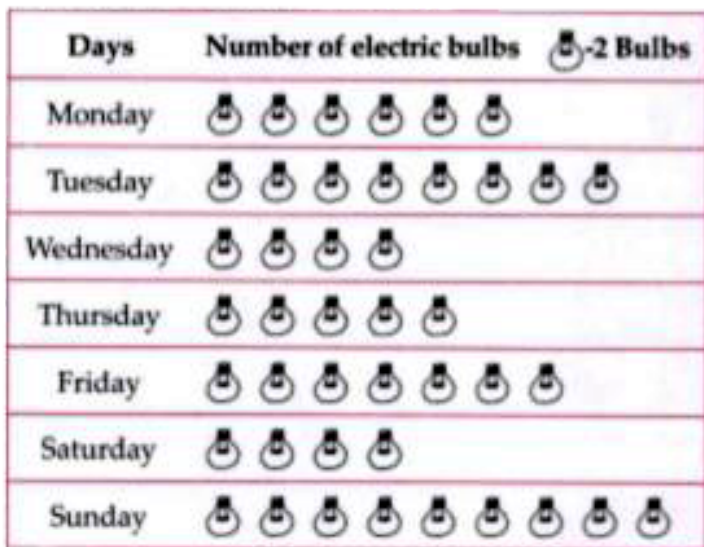
Observe the pictograph and answer the following questions :

On which day were the maximum number of bulbs sold ?



Watch Video Solution

17. The sale of electric bulbs on different days of week is shown below :



Observe the pictograph and answer the following questions :





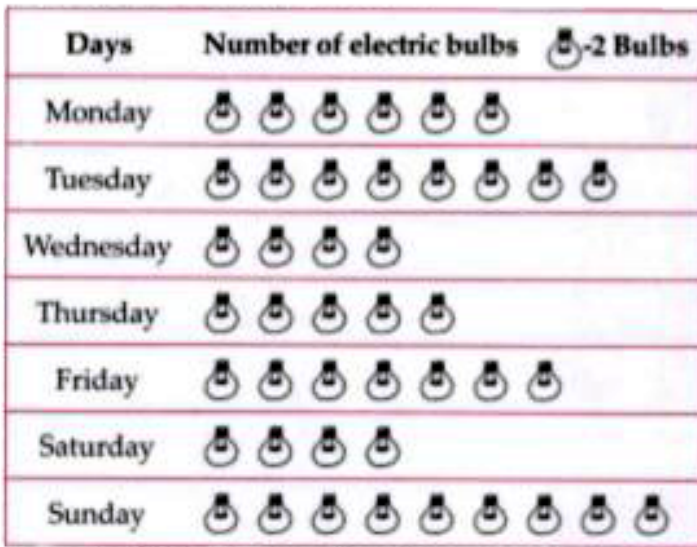
Observe the pictograph and answer the following questions :

On which of the days minimum number of bulbs were sold ?



[Watch Video Solution](#)

**19.** The sale of electric bulbs on different days of week is shown below :































Observe the pictograph and answer the following questions :

If one big carton can hold 9 bulbs. How many cartons were needed in the given week ?



**Watch Video Solution**








20. In a village six fruit merchants sold the following number of fruit baskets in a particular season :

Name of fruit merchants	Number of fruit baskets	 - 100 Fruit baskets
Rahim	   	
Lakhanpal	      	
Anwar	      	
Martin	              	
Ranjit Singh	        	
Joseph	     	

Observe this pictograph and answer the following questions :

Which merchant sold the maximum number of baskets ?

21. In a village six fruit merchants sold the following number of fruit baskets in a particular season :

Name of fruit merchants	Number of fruit baskets	 - 100 Fruit baskets
Rahim		
Lakhanpal		
Anwar		
Martin		
Ranjit Singh		
Joseph		











































Observe this pictograph and answer the following questions :

How many fruit baskets were sold by Anwar ?



Watch Video Solution

22. In a village six fruit merchants sold the following number of fruit baskets in a particular season :

Name of fruit merchants	Number of fruit baskets	 - 100 Fruit baskets
Rahim	   	
Lakhanpal	      	
Anwar	      	
Martin	         	
Ranjit Singh	       	
Joseph	    	

Observe this pictograph and answer the following questions :

The merchants who have sold 600 or more number of baskets are planning to buy a godown for the next season. Can you name them ?



[Watch Video Solution](#)

## Ncert Section Exercise 9 2

1. Total number of animals in five villages are as follows :

Village A : 80    Village B : 120

Village C : 90    Village D : 40

Village E : 60

Prepare a pictograph of these animals using



one symbol                      to represent to animals

and answer the following questions :

How many symbols represent animals of  
village E ?



**Watch Video Solution**

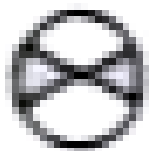
2. Total number of animals in five villages are as follows :

Village A : 80    Village B : 120

Village C : 90    Village D : 40

Village E : 60

Prepare a pictograph of these animals using



one symbol to represent to animals

and answer the following questions :

Which village has the maximum number of animals ?



**Watch Video Solution**



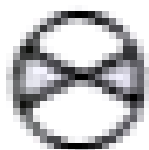
3. Total number of animals in five villages are as follows :

Village A : 80    Village B : 120

Village C : 90    Village D : 40

Village E : 60

Prepare a pictograph of these animals using



one symbol                      to represent to animals

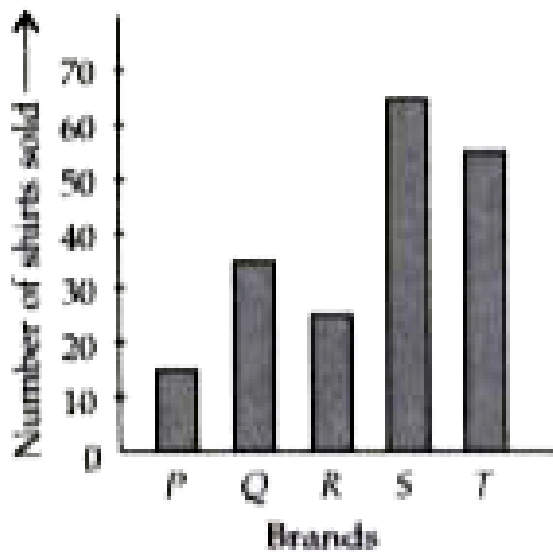
and answer the following questions :

Which village has more animals : village A or village C ?



[Watch Video Solution](#)

4. The given bar graph shows the sale of different brands of shirts in a shop in one month.



Find the ratio of number of shirts sold of brand S to the number of shirts sold or brand P and R together.

{ ((a),8:9),((b)13:8),((c )11:7),((d)13:6): }



Watch Video Solution

5. Total number of students of a school in different years is shown in the following table.

Years	Number of students
1996	400
1998	535
2000	472
2002	600
2004	623

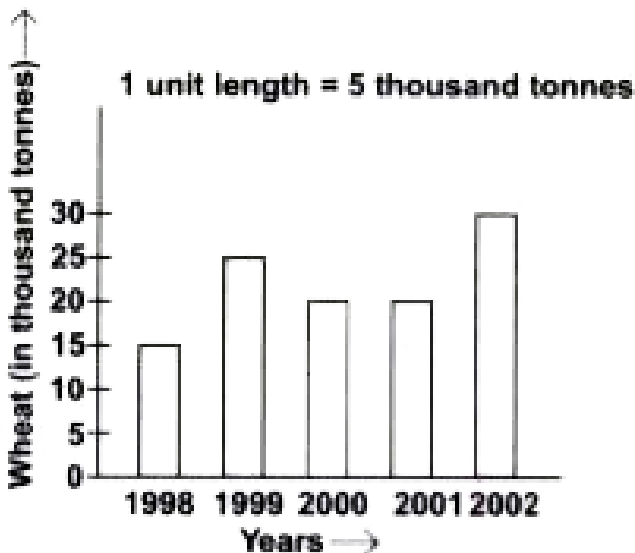
Prepare another pictograph of students using any other symbol each representing 50 students. Which pictograph do you find more informative ?



Watch Video Solution

## Ncert Section Exercise 9 3

1. The given bar graph shows the amount of wheat purchased by government during the year 1998-2002.

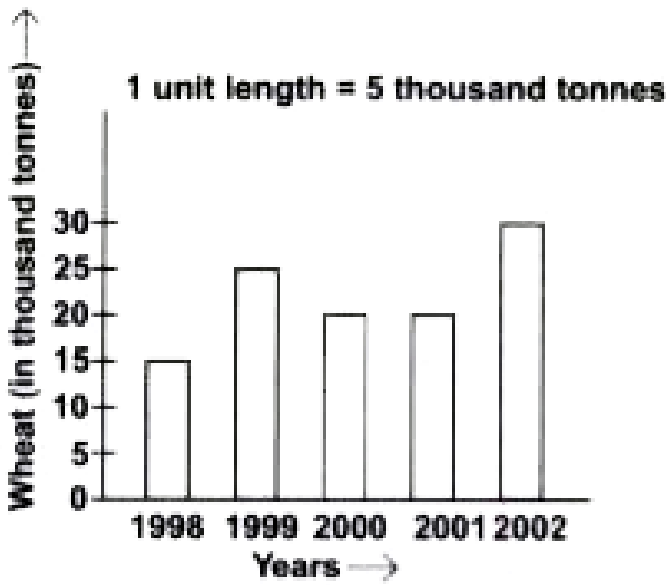


Read the bar graph and write down your observations. In which year was the wheat production maximum ?



[Watch Video Solution](#)

2. The given bar graph shows the amount of wheat purchased by government during the year 1998-2002.

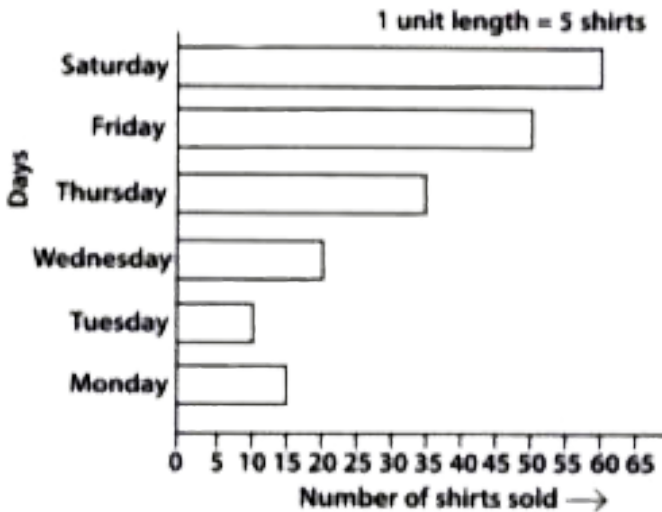


Read the bar graph and write down your observations. In which year was the wheat production minimum ?



[Watch Video Solution](#)

3. Observe this bar graph which is showing the sale of shirts in a ready made shop from Monday to Saturday.



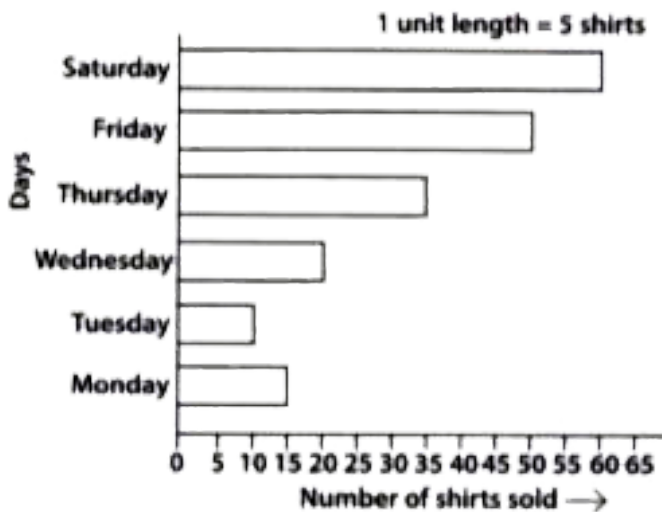
Now answer the following questions :

What information does the above bar graph give ?



[Watch Video Solution](#)

4. Observe this bar graph which is showing the sale of shirts in a ready made shop from Monday to Saturday.



Now answer the following questions :

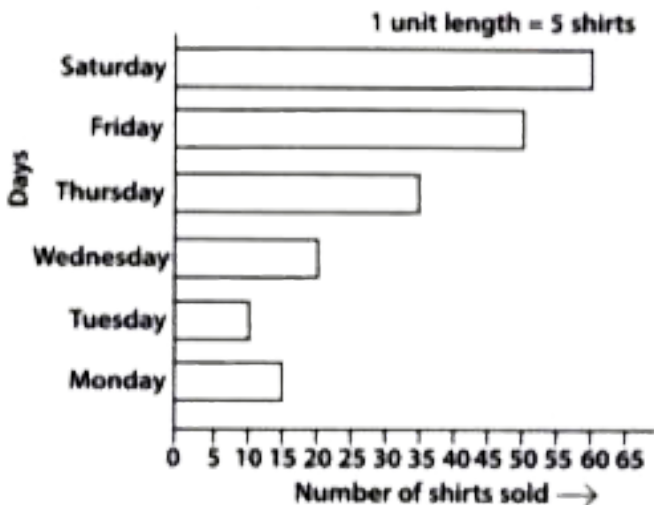
What is the scale chosen on the horizontal line representing number of shirts ?





Watch Video Solution

5. Observe this bar graph which is showing the sale of shirts in a ready made shop from Monday to Saturday.



Now answer the following questions :

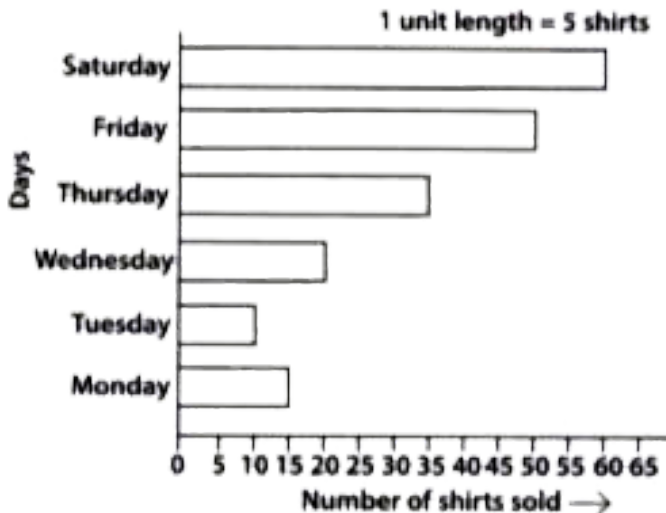
On which day were the maximum number of

shirts sold ? How many shirts were sold on that day ?



[View Text Solution](#)

6. Observe this bar graph which is showing the sale of shirts in a ready made shop from Monday to Saturday.



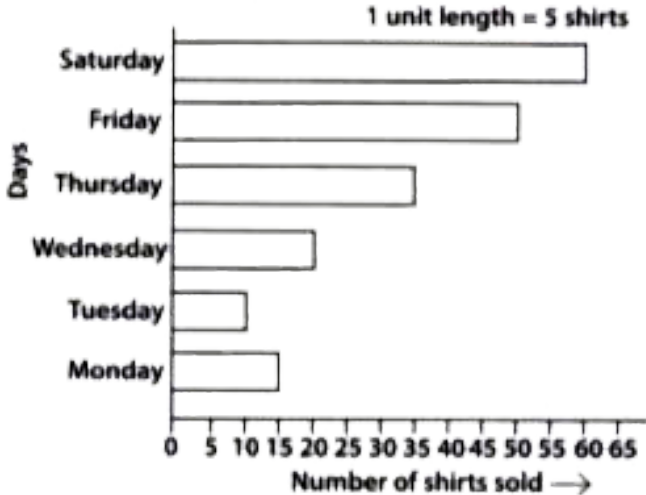
Now answer the following questions :

On which day were the minimum number of shirts sold ?



[Watch Video Solution](#)

7. Observe this bar graph which is showing the sale of shirts in a ready made shop from Monday to Saturday.



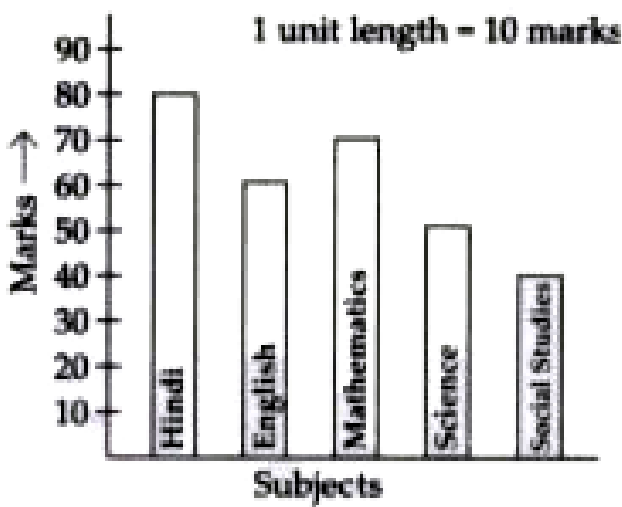
Now answer the following questions :

How many shirts were sold on Thursday ?



[Watch Video Solution](#)

8. Observe this bar graph which shows the marks obtained by Aziz in half-yearly examination in different subjects.



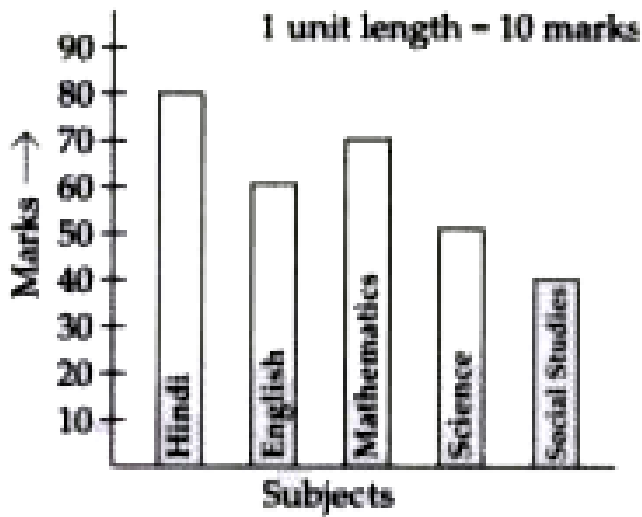
Answer the given questions.

What information does the bar graph give ?



[Watch Video Solution](#)

9. Observe this bar graph which shows the marks obtained by Aziz in half-yearly examination in different subjects.



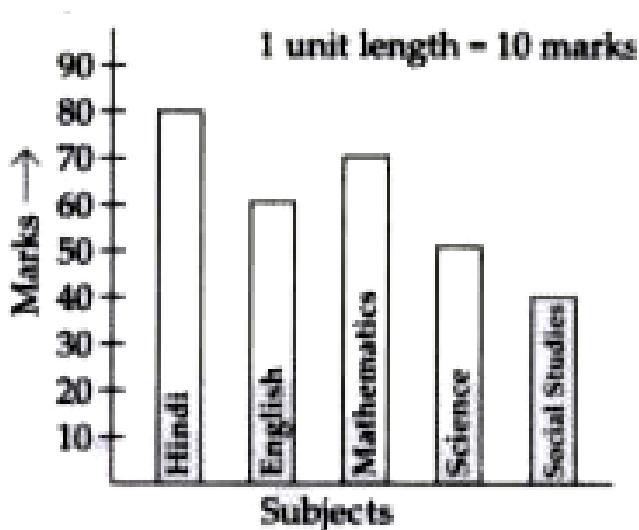
Answer the given questions.

Name the subject in which Aziz scored maximum marks.



[Watch Video Solution](#)

10. Observe this bar graph which shows the marks obtained by Aziz in half-yearly examination in different subjects.



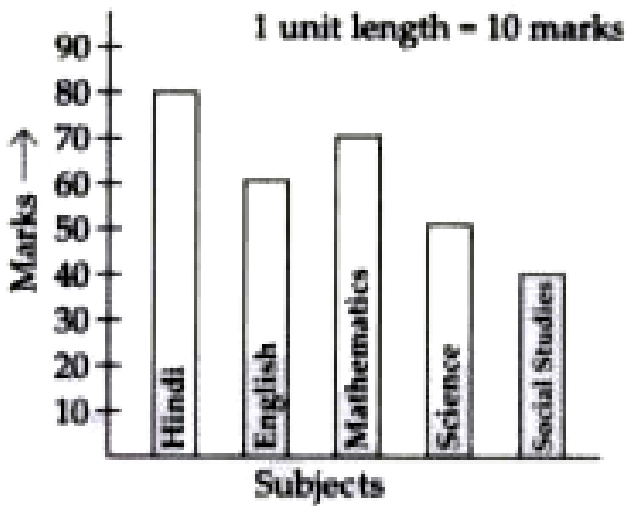
Answer the given questions.

Name the subject in which he has scored minimum marks.



[Watch Video Solution](#)

11. Observe this bar graph which shows the marks obtained by Aziz in half-yearly examination in different subjects.



Answer the given questions.

State the name of the subjects and marks obtained in each of them.





Watch Video Solution

## Ncert Section Exercise 9 4

1. A survey of 120 school students was done to find which activity they prefer to do in their free time.

Preferred activity	Number of students
Playing	45
Reading story books	30
Watching TV	20
Listening to music	10
Painting	15

Draw a bar graph to illustrate the above data taking scale of 1 unit length = 5 students.



[Watch Video Solution](#)

2. The number of Mathematics books sold by a shopkeeper on six consecutive days is shown below :

Days	Sun-day	Mon-day	Tues-day	Wednes-day	Thurs-day	Friday
Number of books sold	65	40	30	50	20	70

Draw a bar graph to represent the above information choosing the scale of your choice.



Watch Video Solution

3. Following table shows the number of bicycles manufactured in a factory during the years 1998 to 2002. Illustrate this data using a bar graph. Choose a scale of your choice.

Years	Number of bicycles manufactured
1998	800
1999	600
2000	900
2001	1100
2002	1200

In which year were the maximum number of bicycles manufactured ?



Watch Video Solution

4. Following table shows the number of bicycles manufactured in a factory during the years 1998 to 2002. Illustrate this data using a bar graph. Choose a scale of your choice.

Years	Number of bicycles manufactured
1998	800
1999	600
2000	900
2001	1100
2002	1200

In which year were the minimum number of bicycles manufactured ?



Watch Video Solution

## Exercise Multiple Choice Questions Level 1

1. In the data 18, 13, 15, 13, 18, 14, 15, 13, 14, 15, how many times the number '15' repeats itself?

A. 2

B. 1

C. 3

D. 4

**Answer: C**



**Watch Video Solution**

2. Collection of numbers to give some information is called \_\_\_\_\_ .

A. Data

B. Tally marks

C. Bar graph

D. Pictograph

**Answer: A**



**Watch Video Solution**

**3.** Representation of data in tabular form is done by using \_\_\_\_\_ .

A. Bar graph

B. Frequency

C. Tally marks

D. None of these

**Answer: C**



**Watch Video Solution**

4. In a survey of 12 families, each family is found to have the following number of children.

3, 1, 4, 1, 2, 2, 3, 1, 2, 2, 3, 3

Number of families with 2 children is equal to number of families with \_\_\_\_\_ .

A. 1 child



B. 3 children

C. 4 children

D. None of these

**Answer: B**



**Watch Video Solution**

5. Data obtained in the original form is called

\_\_\_\_\_ .

A. Bar graph

B. Pie chart

C. Raw data

D. Observation

**Answer: C**



**Watch Video Solution**

**6.** The choices of the fruits of 42 students in a class are as follows:

*A, O, B, M, A, G, B, G, A, G,*

*B, M, A, G, M, A, B, G, M, B,*

*A, O, M, O, G, B, O, M, G, A,*

*A, B, M, O, M, G, B, A, M, O, M, O,*

Where A, B, G, M and O stand for the fruits Apple, Banana, Grapes, Mango and Orange respectively.

Which two fruits are liked by an equal number of students?

A. A and M

B. M and B

C. B and O







D. B and G

**Answer: D**



**Watch Video Solution**

7. A survey was carried out by the principal of a school to find the favourite subject of middle school students. The results of the survey is shown in the pictograph.

Favourite Subject	No. of students
Mathematics	
Science	
Social Studies	
English	
Hindi	
Each  represents 5 students.	

How many more students like English than Science?

- A. 15
- B. 20
- C. 35





D. 30

**Answer: B**



**Watch Video Solution**

8. Following is the pictograph of different kinds of trees in a garden.

Type of trees	Number of trees
Mango trees	
Coconut trees	
Banana trees	
Each  represents 10 trees.	

Find the total number of trees in the garden.

A. 120

B. 140

C. 130





D. 150

**Answer: D**



**Watch Video Solution**

**9.** Following is the pictograph of different kinds of trees in a garden.

Type of trees	Number of trees
Mango trees	
Coconut trees	
Banana trees	
Each  represents 10 trees.	

The number of mango trees is \_\_\_\_\_ times the number of banana trees.

- A. Ten
- B. Two
- C. Four
- D. Three





**Answer: B**





Watch Video Solution

10. Following is the pictograph of different kinds of trees in a garden..

Type of trees	Number of trees
Mango trees	
Coconut trees	
Banana trees	
Each  represents 10 trees.	

What is the difference between the number of mango trees and the number of banana trees?

A. 40

B. 30

C. 80

D. 60

**Answer: A**



**Watch Video Solution**

**11.** The representation of data with bars of uniform width is called

A. Bar graph

B. Pictograph

C. Tally marks

D. None of these

**Answer: A**



**Watch Video Solution**

**12.** Data collected from sources like internet, magazines etc. is called \_\_\_\_\_ .

A. Secondary Data

B. Primary Data

C. Tally marks





D. Frequency

**Answer: A**



**Watch Video Solution**

**13.** The given pictograph shows the number of girls in class X-XII.

Class	Number of girls
X	
XI	
XII	
Each  represents 10 girls	

There are \_\_\_\_\_ girls in class X-XII.

A. 120

B. 125

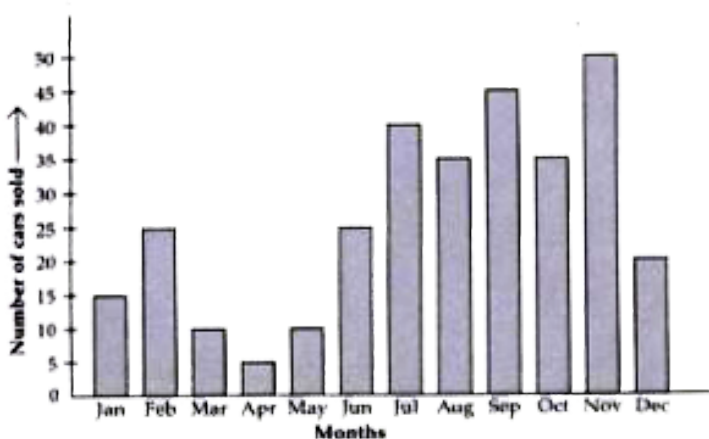
C. 50

D. 85

**Answer: D**



14. The given bar graph shows the number of cars sold from Jan to Dec.



How many cars were sold in the last quarter of the year?

A. 280

B. 130

C. 140

D. 105

**Answer: D**



**Watch Video Solution**

**15.** The given data shows the number of boys in classes V to X of a school.

Class	Number of boys
V	III I
VI	III III III
VII	III
VIII	II
IX	III III II
X	III III

What is the difference between the number of boys in class VI and class IX?

- A. |
- B. |||
- C. ||



D. |||

**Answer: A**



**Watch Video Solution**

**16.** The presentation of data in the form of pictures is called \_\_\_\_\_ .

A. Bar graph

B. Pictograph

C. Tally marks

D. None of these

**Answer: B**



**Watch Video Solution**

**17.** The number of times an observation is repeated in a data is called \_\_\_\_\_ .

A. Frequency

B. Sample

C. Bar Graphs

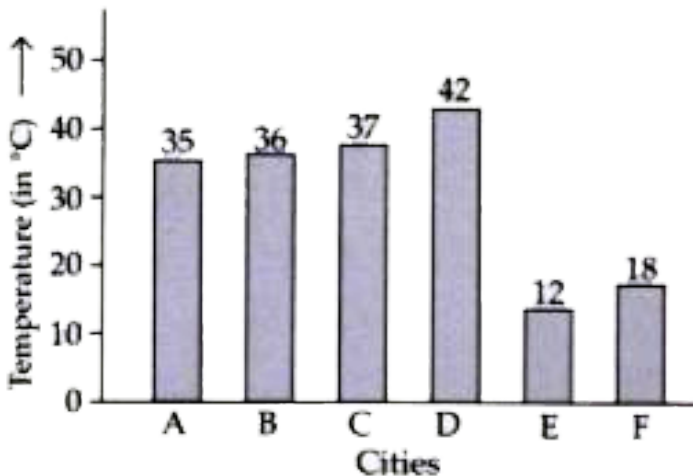
D. None of these

**Answer: A**



**Watch Video Solution**

**18.** The bar graph shows the temperatures in 6 cities.



The difference between the maximum and the minimum temperature is \_\_\_\_\_ .

A.  $28^{\circ} C$

B.  $35^{\circ} C$

C.  $37^{\circ} C$

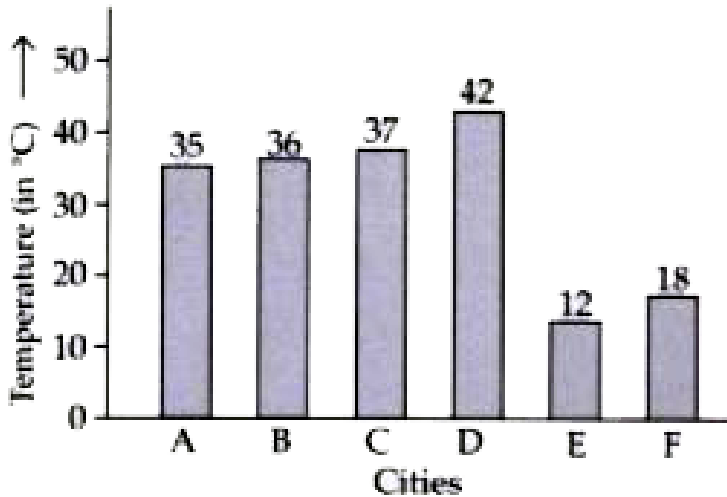
D.  $30^{\circ} C$

**Answer: D**



**Watch Video Solution**

19. The bar graph shows the temperatures in 6 cities.



The number of cities whose temperatures are between  $30^{\circ}C$  to  $40^{\circ}C$  is

A. 2

B. 3

C. 4

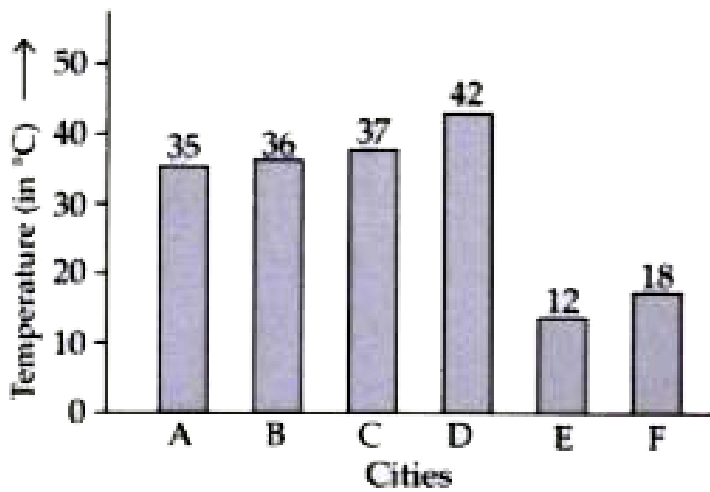
D. 6

**Answer: B**



**Watch Video Solution**

**20.** The bar graph shows the temperatures in 6 cities.



If a place with temperature equal to or above  $35^{\circ}C$  is considered to be hot, then the number of cold places is

A. 1

B. 2

C. 4

D. 3

**Answer: B**



**Watch Video Solution**

**21.** Production of cars in a factory in different years is shown below.

Year	1990	1991	1992	1993	1994
No. of Cars	1000	1500	2000	2400	3000

The ratio of production in the year 1990 to 1994 is \_\_\_\_\_ .

**A. 1 : 3**



B. 1 : 2

C. 2 : 3

D. 2 : 1

**Answer: A**



**Watch Video Solution**

**22.** The following table shows the number of chocolates four friends have.

Name	No. of chocolates
Amit	10
Sumit	10
Ravi	15
Shekhar	18

Two friends share the same number of chocolates. The number of chocolates each of them has, is \_\_\_\_\_ .

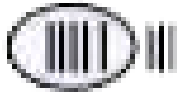
- A. 10
- B. 15
- C. 18
- D. 0

**Answer: A**



**Watch Video Solution**

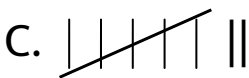
**23.** Using tally marks, which one of the following represents the number eight:



A.



B.



C.



D.

**Answer: D**



**Watch Video Solution**

**24.** Following information shows different type of soap used by children.

<b>Soap</b>	<b>Tally Marks</b>
Pears	IN III
Lux	IN IN II
Dove	IN IN IN
Nivea	IN IIII

Which soap is used by 9 children?

A. Dove

B. Lux

C. Nivea

D. Pears

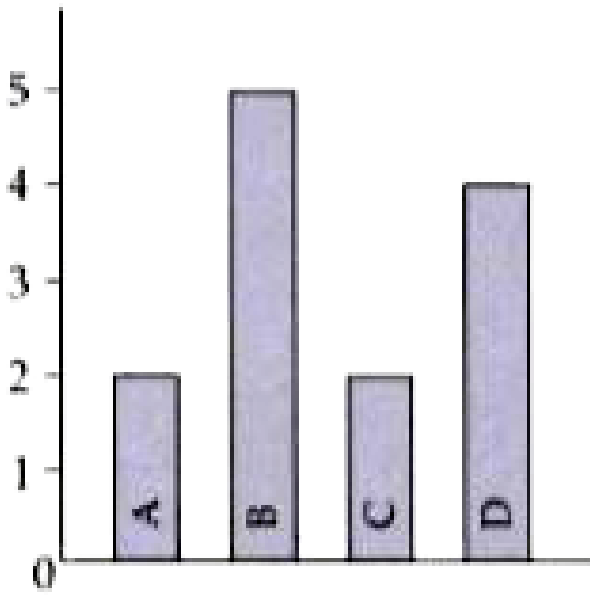
**Answer: C**



**Watch Video Solution**

**25.** The two bars of the same value are \_\_\_\_\_

.



A. A and B

B. B and C

C. C and D

D. A and C

**Answer: D**



[Watch Video Solution](#)

**26.** Record of the numbers shown on the top face of a die, rolled 20 times, is shown below:

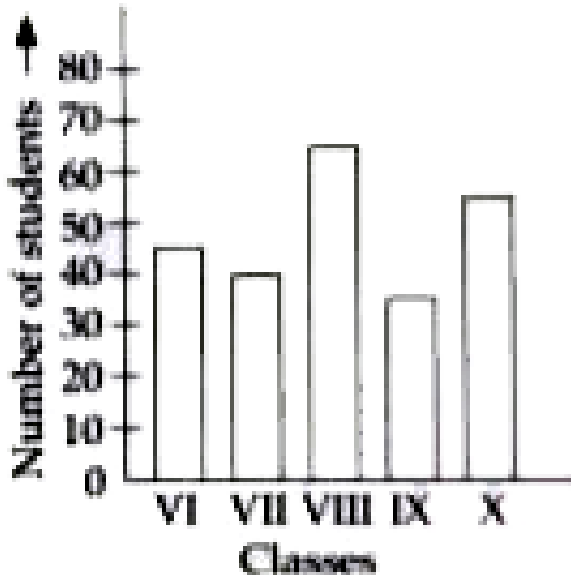
1, 3, 5, 6, 6, 3, 5, 4, 1, 6, 2, 5, 1, 4, 6, 1, 6, 4, 1, 1

Which two numbers appear same number of times?



[Watch Video Solution](#)

27. The given bar graph, shows the number of students in different classes.



Arrange the classes in descending order of student population.

A. VIII, VI, VII, IX, X



B. VIII, VII, VI, X, IX

C. VIII, X, VI, VII, IX

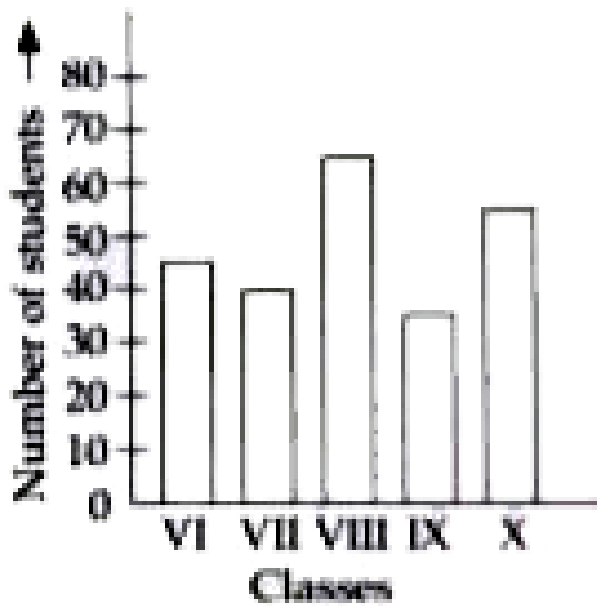
D. IX, VII, VI, X, VIII

**Answer: C**



**Watch Video Solution**

**28.** The given bar graph, shows the number of students in different classes.



Find the total number of students in the classes VIII to X.

- A. 160
- B. 150
- C. 155

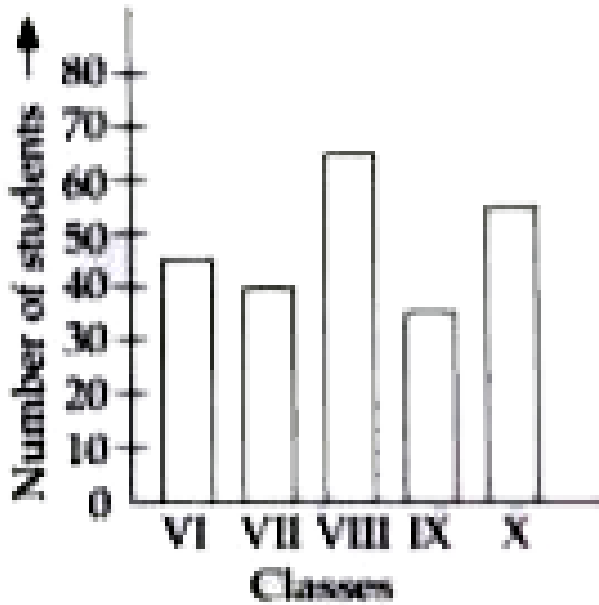
D. 145

**Answer: C**



**Watch Video Solution**

**29.** The given bar graph, shows the number of students in different classes.



How many more students are there in class VIII than in class IX?

- A. 35
- B. 25
- C. 30

D. 55

**Answer: C**

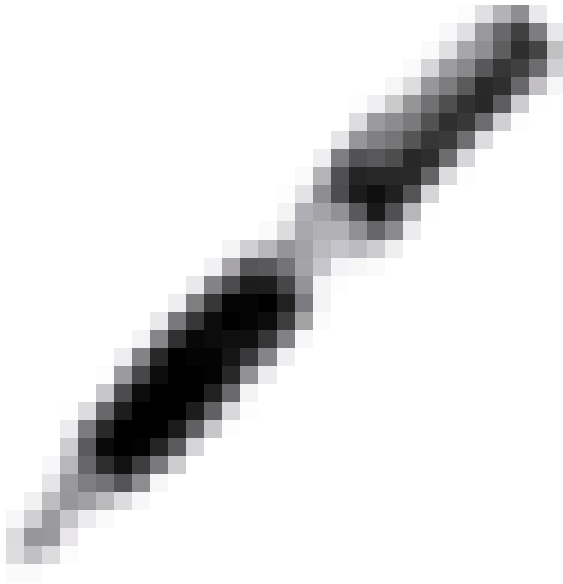


**Watch Video Solution**

30.

If

one

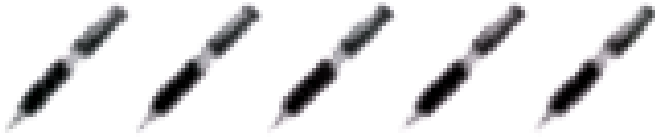


represents

35

pens,

then



will

represent

A. 260 pens

B. 280 pens

C. 175 pens

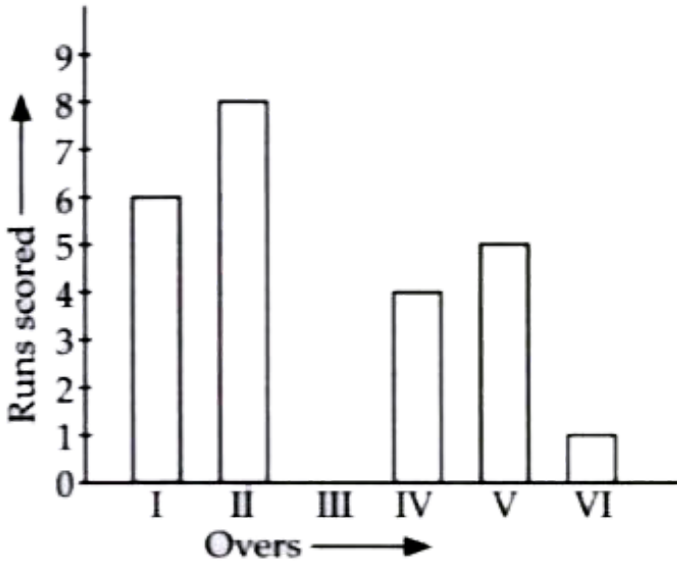
D. 140 pens

**Answer: C**



**Watch Video Solution**

31. The bar-graph given below shows the runs scored in six overs by a batsman.



How many more runs were scored in the second over than in fourth over?

A. 8

B. 4



C. 5

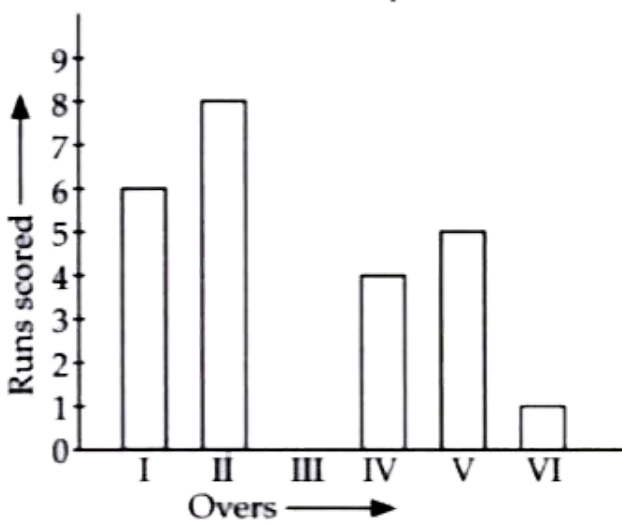
D. 3

**Answer: B**



**Watch Video Solution**

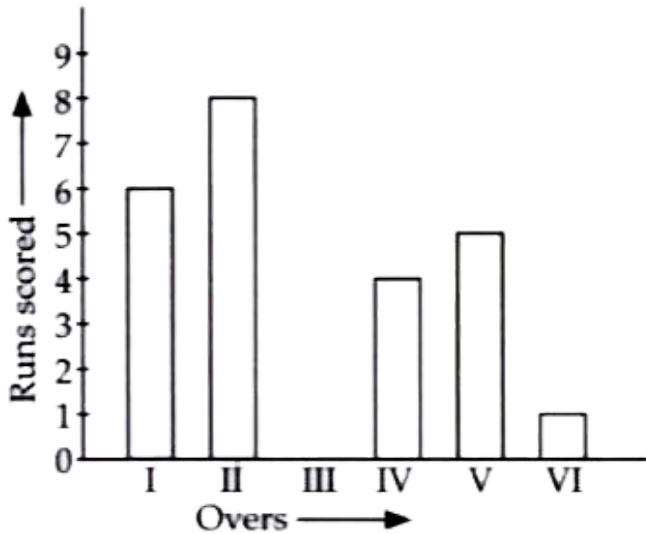
**32.** The bar-graph given below shows the runs scored in six overs by a batsman.



What were the total runs scored in the six overs?

 [Watch Video Solution](#)

**33.** The bar-graph given below shows the runs scored in six overs by a batsman.



How many overs were there in which less than 3 runs were scored?



[Watch Video Solution](#)

**34.** The marks obtained by 10 students Mathematics test are given below:

55 36 95 73 62 42 25 78 75 62

How many students got less than 60 marks?

A. 2

B. 3

C. 4

D. 5

**Answer: C**



**Watch Video Solution**

**35.** The marks obtained by 10 students

Mathematics test are given below:

55 36 95 73 62 42 25 78 75 62

How many students got 75 or more marks?

A. 1

B. 2

C. 3

D. 4









**Answer: C**



Watch Video Solution

## Exercise Multiple Choice Questions Level 2

1. The given pictograph shows the number of pizzas delivered by pizza hut during a week.








Days	Number of Pizzas
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	
Sunday	
Each  represents 10 pizzas	

On which day, the number of pizzas delivered is minimum?



[Watch Video Solution](#)

2. The given pictograph shows the number of pizzas delivered by pizza hut during a week.







Days	Number of Pizzas
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	
Sunday	
Each  represents 10 pizzas	

Find the number of pizzas delivered on Sunday.



[Watch Video Solution](#)

3. The given pictograph shows the number of animals in 5 different zoos.

Name of Zoos	Number of animals
A	
B	
C	
D	
E	
Each  represents 5 animals	

Which of the following statements is correct?



A. Number of animals in zoo A is 10 more than the number of animals in zoo B.

B. Number of animals in zoo D is equal to the number of animals in zoo E.

C. Number of animals in zoo C is 18.

D. Number of animals in zoo A is twice the number of animals in zoo C.

**Answer: D**



**Watch Video Solution**

4. On the scale, 1 unit length = 10 crore, the bar of length 6 units will represent \_\_\_\_\_ crore.

A. 60

B. 6

C. 5






D. None of these

**Answer: A**



**Watch Video Solution**

5. The following pictograph shows favourite ice cream flavours of boys in a colony.

Flavours	No. of Boys
Vanilla	
Mango	
Strawberry	
Butterscotch	
Each  represents 100 boys.	

Which flavour is liked least by the boys?

A. Mango

B. Vanilla

C. Strawberry

D. Butterscotch

**Answer: A**



**Watch Video Solution**

6. The following pictograph shows favourite ice cream flavours of boys in a colony.

Number of boys liking vanilla flavoured ice cream are \_\_\_\_\_ .

A. 700

B. 800

C. 500

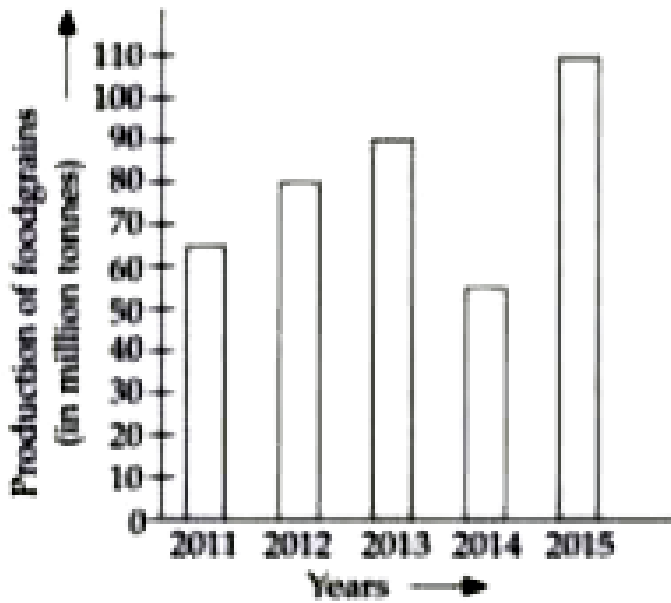
D. 300

**Answer: A**



**View Text Solution**

7. Read the bar graph given below and answer the following questions.



What is the ratio of the production of foodgrains in 2011 to that in 2014?

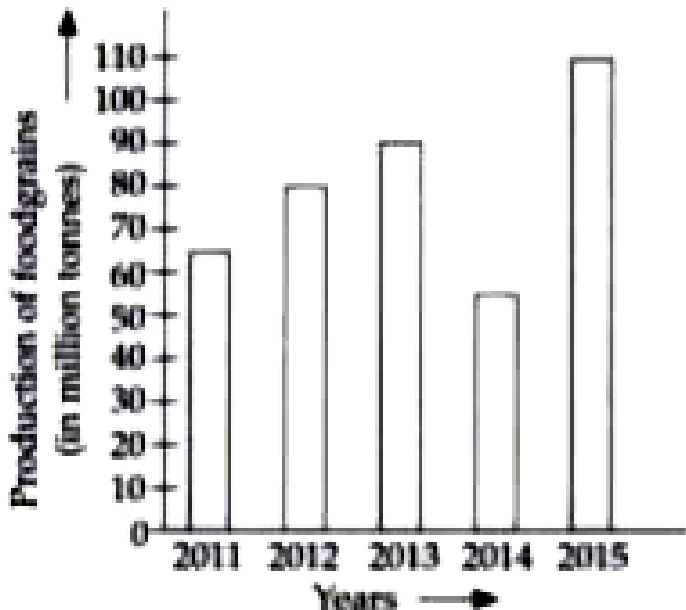
- A. 11 : 13
- B. 5 : 11
- C. 13 : 11
- D. 11 : 5

**Answer: C**



**Watch Video Solution**

**8.** Read the bar graph given below and answer the following questions.



Find the difference between the production of foodgrains in million tonnes) in the year 2012 and 2015.

A. 80

B. 40

C. 20

D. 30

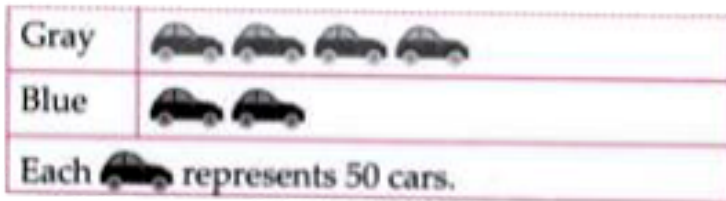
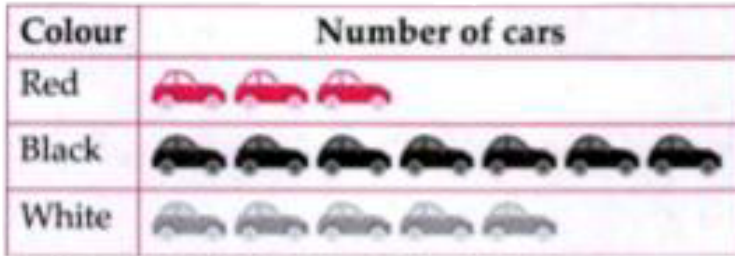
**Answer: D**



**Watch Video Solution**



9. The following pictograph shows the sale of cars of different colours in a showroom.



How many less blue cars were sold than red and gray cars together?

A. 300

B. 250

C. 200




D. 150




**Answer: B**



**Watch Video Solution**

**10.** The following pictograph shows the sale of cars of different colours in a showroom.

Colour	Number of cars
Red	
Black	
White	

Gray	
Blue	
Each  represents 50 cars.	

The ratio of white cars to black cars sold is

A. 4 : 5

B. 5 : 7

C. 3 : 5

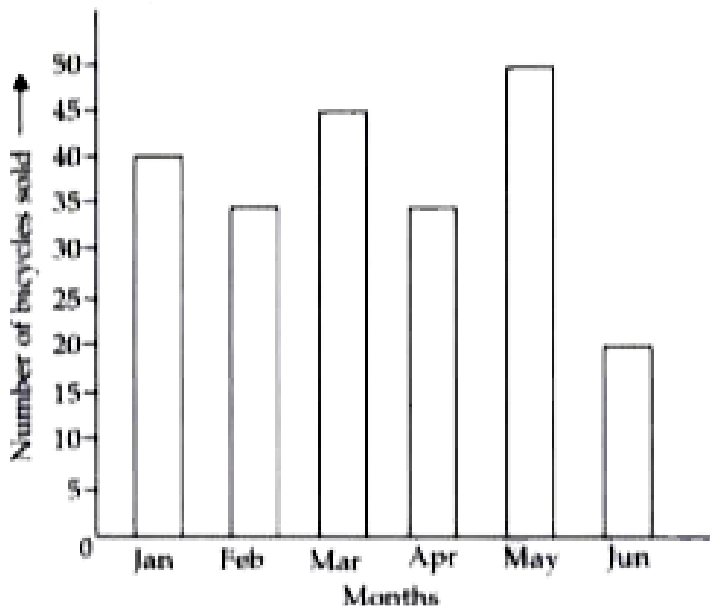
D. 3 : 7

**Answer: B**



**Watch Video Solution**

11. Look at the bar graph and answer the following questions.



In which month 40 bicycles were sold?

A. January

B. February

C. April

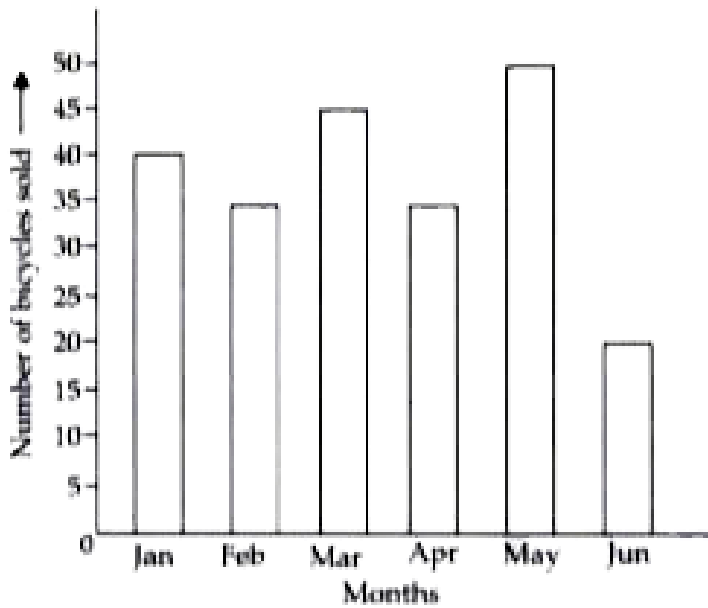
D. May

**Answer: A**



**Watch Video Solution**

**12.** Look at the bar graph and answer the following questions.



How many less bicycles sold in June than in March?

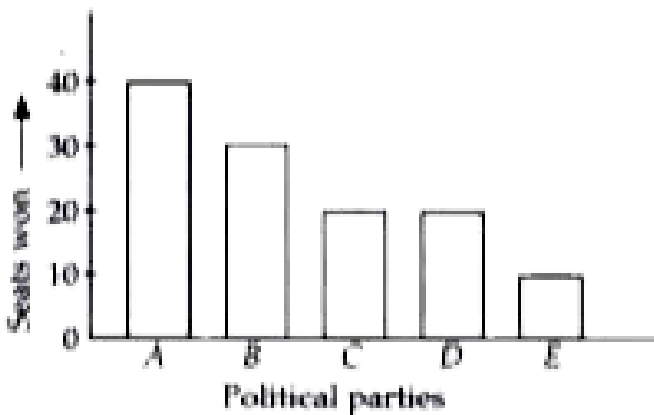
- A. 28
- B. 30
- C. 40
- D. 25

**Answer: D**



**Watch Video Solution**

**13.** Observe the bar graph and answer the following questions.



Which two political parties won the same number of seats?

A. C, D

B. C, E

C. D, E

D. B, D

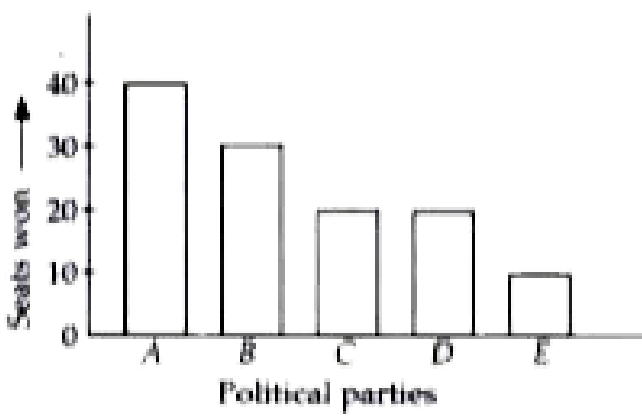
**Answer: A**



**Watch Video Solution**

**14.** Observe the bar graph and answer the following questions.





What is the total number of seats won by party A and party B?

- A. 70
- B. 20
- C. 30
- D. 40

**Answer: A**



Watch Video Solution

15. Observe the following pictograph and answer the following questions.

Blood group	Number of students
A	
B	
O	
AB	
Each  represents 3 students.	

The ratio of the frequencies of blood group AB to blood group O is

A. 1 : 4

B. 1 : 3

C. 2 : 3






D. 3 : 4

**Answer: A**



**Watch Video Solution**

**16.** Observe the following pictograph and answer the following questions.

Blood group	Number of students
A	
B	
O	
AB	
Each  represents 3 students.	

The ratio of the frequencies of blood group A to blood group B is

- A. 1 : 3
- B. 2 : 3
- C. 3 : 2
- D. 1 : 2




**Answer: C**



**Watch Video Solution**

**Exercise Match The Following**

# 1. Match the following

	List-I	List-II
(P)	If ☉ represents 3 flowers, then ☉☉☉ represents _____ flowers.	1. 75
(Q)	☆☆☆ represents 45 stars, then ☆☆☆☆☆ represents _____ stars.	2. 10
(R)	 represents 20 trees, then  represents _____ trees.	3. 9
(S)	♀ represents 5 girls, then  represents _____ girls.	4. 20

A. P-1, Q-2, R-3, S-4

B. P-3, Q-1, R-2, S-4

C. P-4, Q-3, R-2, S-1

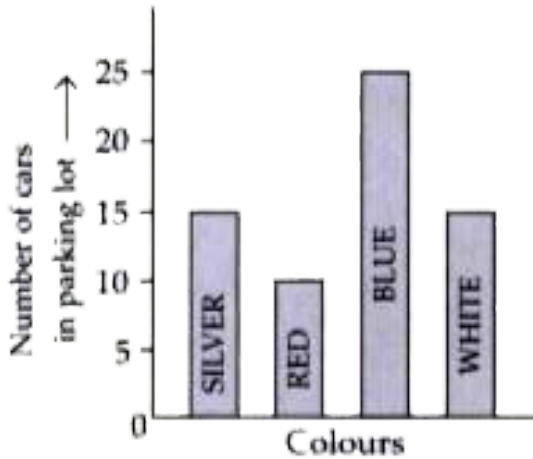
D. P-1, Q-3, R-4, S-2

**Answer: B**



**Watch Video Solution**

2. Study the bar graph and match the lists.



**List-I**

- (P) Total number of cars in the parking lot is
- (Q) Number of cars which are blue in colour is
- (R) The least common colour among the cars is
- (S) The most common colour among the cars is

**List-II**

- 1. Blue
- 2. 25
- 3. 65
- 4. Red

A. P-2, Q-3, R-1, S-4

B. P-1, Q-2, R-3, S-4



C. P-4, Q-3, R-2, S-1

D. P-3, Q-2, R-4, S-1

**Answer: D**



**Watch Video Solution**

## Exercise Assertion Reason Type

1. Assertion : Consider the marks scored by 10 students in a test. 10, 9, 9, 8, 2, 8, 2, 8, 8, 7. The frequency of 8 in the data is 4.

Reason : 8 occurs 4 times in the data. So, its frequency is 4.

A. If both assertion and reason are true and reason is the correct explanation of assertion.

B. If both assertion and reason are true but reason is not the correct explanation of assertion.

C. If assertion is true but reason is false.

D. If assertion is false but reason is true.

**Answer: A**



**Watch Video Solution**

**2. Assertion :** Raw data should be arranged in tabular form for its representation.

**Reason :** Representation through bar graph and pictograph is less efficient or organised.

A. If both assertion and reason are true and reason is the correct explanation of assertion.

B. If both assertion and reason are true but reason is not the correct explanation of assertion.

C. If assertion is true but reason is false.

D. If assertion is false but reason is true.

**Answer: C**



**Watch Video Solution**

3. The number of two-wheelers owned by each of 45 families are listed below.

No. of two-wheelers	Tally marks
0	
1	      
2	      
3	      
4	

Assertion: The number of families having 3 two-wheelers is 9.

Reason : 9 is represented as ~~||||~~ |||.

A. If both assertion and reason are true and reason is the correct explanation of

assertion.

B. If both assertion and reason are true but reason is not the correct explanation of assertion.

C. If assertion is true but reason is false.

D. If assertion is false but reason is true.

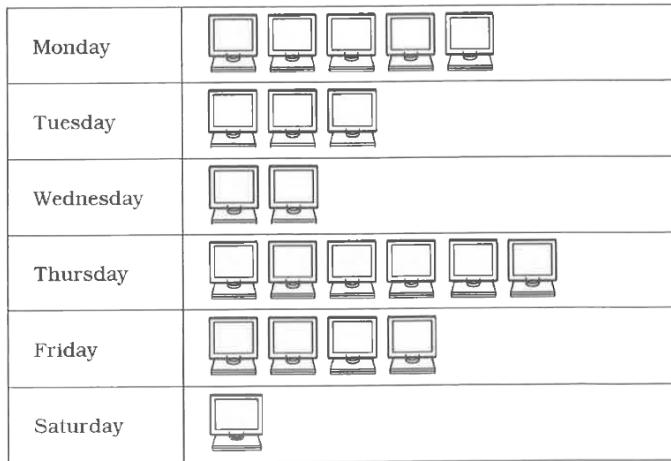
**Answer: C**



**Watch Video Solution**

4. The pictograph shows the number of computers sold by a company during a week.

The scale used:  = 6 computers



Look at the pictograph and answer the question given below.

How many computers were sold on Friday ?

How many computers were sold on Monday ?

How many computers were sold during the

week ?

On which day was the sale maximum ?

A. If both assertion and reason are true and reason is the correct explanation of assertion.

B. If both assertion and reason are true but reason is not the correct explanation of assertion.

C. If assertion is true but reason is false.

D. If assertion is false but reason is true.

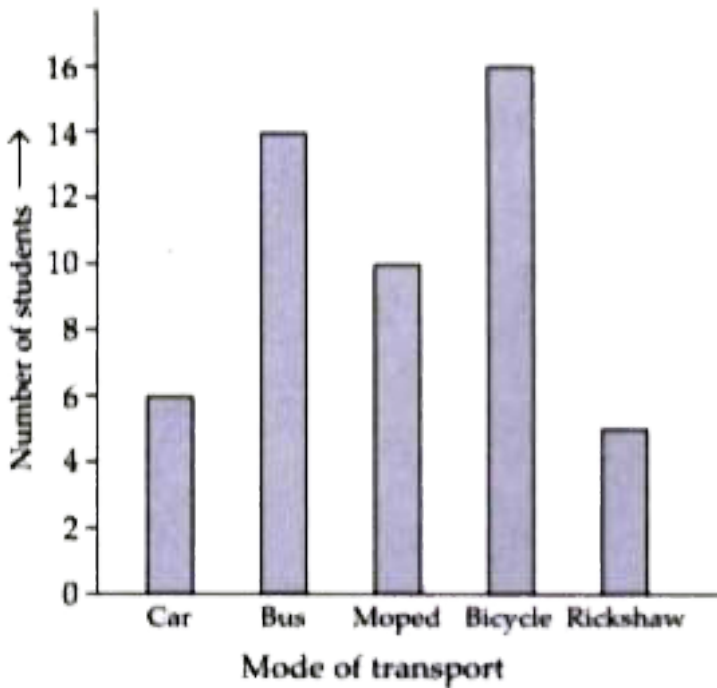


**Answer: B**



**Watch Video Solution**

5. 51 students from a locality use different modes of transport to go to school as shown by the bar graph given below.



Assertion : Bicycle is used by maximum number of students.

Reason : Height of bar corresponding to bicycle is maximum. So, most students use bicycle to go to school.

A. If both assertion and reason are true and reason is the correct explanation of assertion.

B. If both assertion and reason are true but reason is not the correct explanation of assertion.

C. If assertion is true but reason is false.

D. If assertion is false but reason is true.

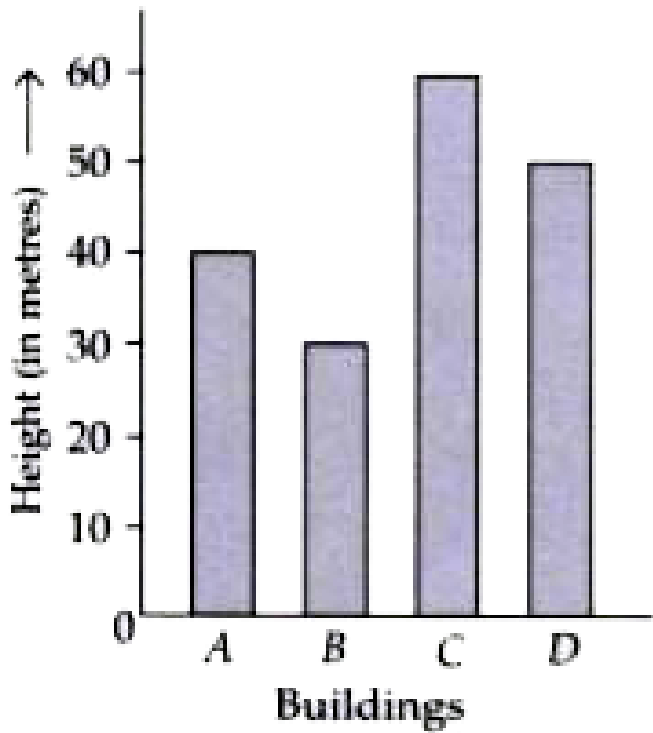
**Answer: A**



**Watch Video Solution**

## Exercise Comprehension Type

1. The given bar graph shows the heights of different buildings.



The building that is 50 m tall is \_\_\_\_\_ .

A. B

B. A

C. D

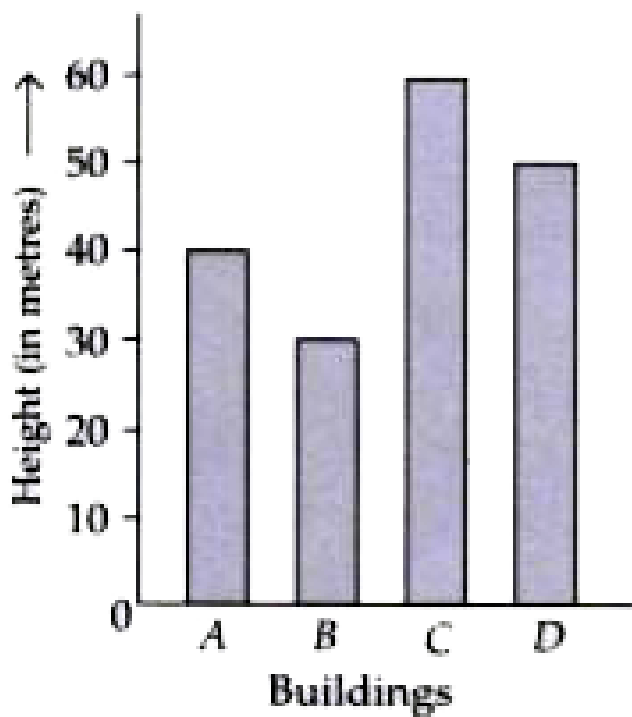
D. C

**Answer: C**



**Watch Video Solution**

2. The given bar graph shows the heights of different buildings.



What is the height of building C ?

- A. 50 m
- B. 60 m
- C. 20 m
- D. 30 m

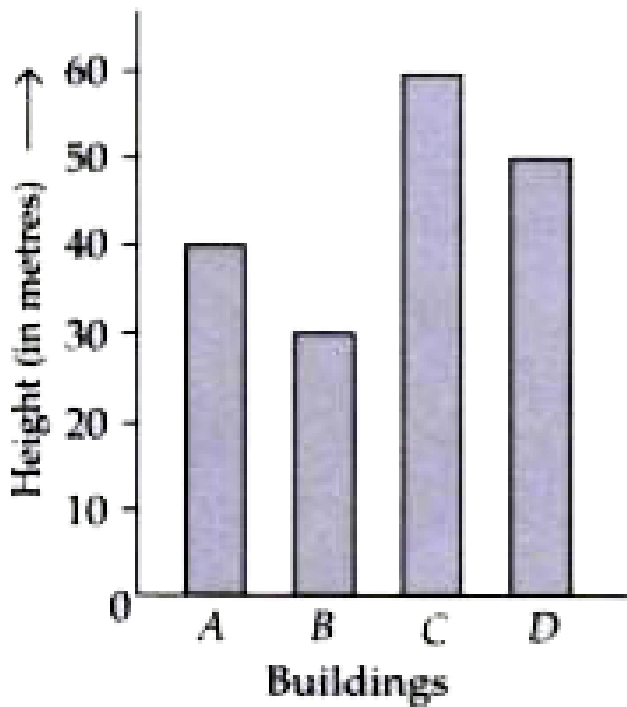
**Answer: B**



**Watch Video Solution**

**3.** The given bar graph shows the heights of different buildings.





How much smaller the height of building B that the height of building A ?

- A. 10 m
- B. 20 m
- C. 40 m

D. 30 m

**Answer: A**



**Watch Video Solution**

4. The given pictograph shows the books of different subjects kept in a school library ?

Subject	Number of books
Hindi	
English	
History	
Science	
Mathematics	
Each  represents 200 books.	

How many English book are there in the library

?

A. 1500

B. 1200

C. 1000




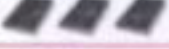


D. 1300

**Answer: B**



**Watch Video Solution**

5. The given pictograph shows the books of different subjects kept in a school library ?

Subject	Number of books
Hindi	
English	
History	
Science	
Mathematics	
Each  represents 200 books.	

How many Mathematics books are there in the library ?

A. 400

B. 200

C. 100

D. 300

**Answer: D**



**Watch Video Solution**

6. The given pictograph shows the books of different subjects kept in a school library ?

Subject	Number of books
Hindi	
English	
History	
Science	
Mathematics	
Each  represents 200 books.	

Book of which subject are maximum in number

?

A. Hindi

B. Mathematics

C. english

D. Science

**Answer: C**



**Watch Video Solution**

# Exercise Subjective Problems Very Short Answer Type

## 1. Pictographs



[Watch Video Solution](#)

2. The daily wages of 30 workers (in Rs.) in a factory is given below.

40, 45, 35, 70, 60, 52, 49, 46, 65, 56, 60, 35, 45,  
40, 50, 56, 57, 48, 55, 52, 50, 70, 75, 80, 50, 45,  
52, 65, 72, 50.

How many workers are earning less than Rs. 50 per day ?



[Watch Video Solution](#)

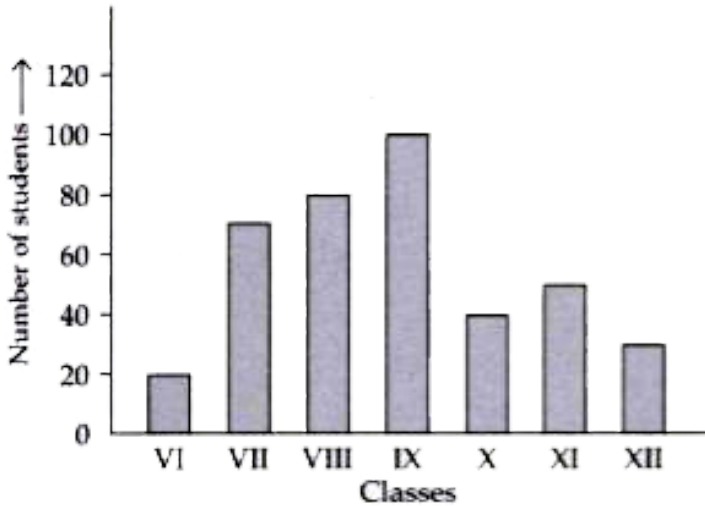
3. The following is a list of size of shoes of 8 students of class VI :5, 6, 5, 4, 5, 4, 6 and 4. If the shoe size less than 5 is observed for girls, how many girls are there in the list ?



[Watch Video Solution](#)



4. The following bar graph shows the number of students in different classes of a school.

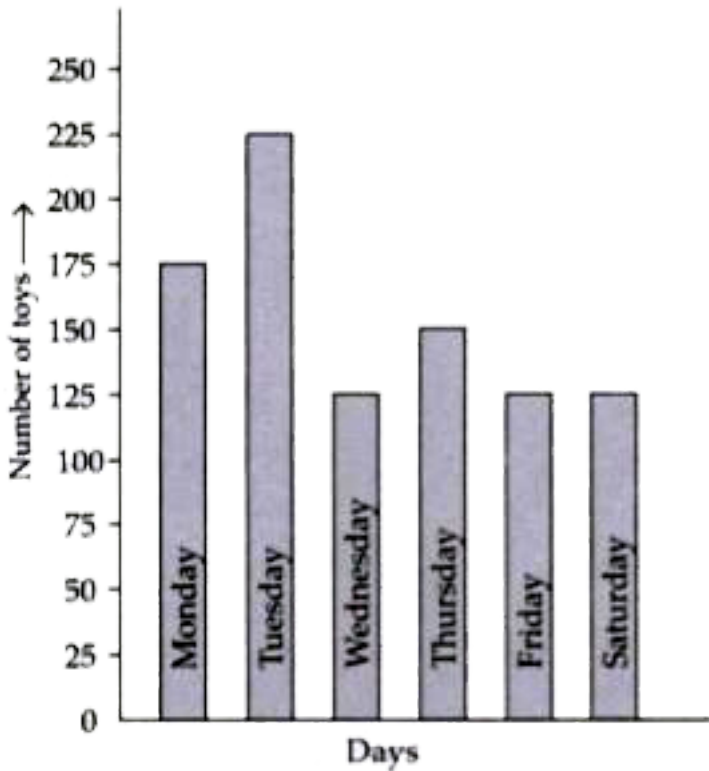


How many more students are there in Class IX than in Class VIII ?



[Watch Video Solution](#)

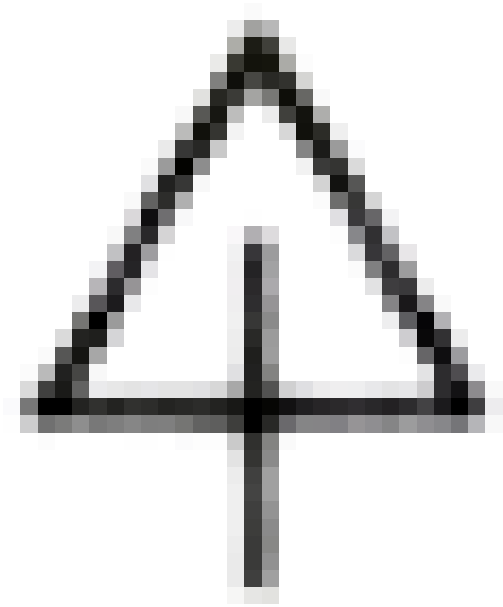
5. The bar graph shows the number of toys produced by a factory during a certain week.



What is the total number of toys produced during the week ?

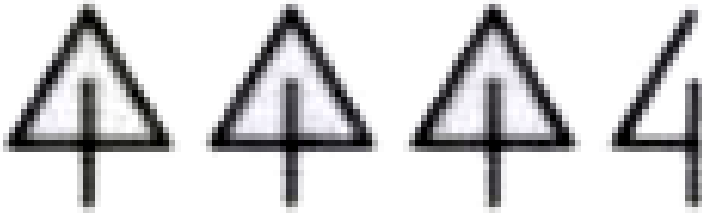


[Watch Video Solution](#)



6. If

represents 150 pillars, what does



represents ?



[Watch Video Solution](#)

7. The given table shows the number of toffees four friends has

Name	Number of toffees
Naman	10
Meena	12
Garima	8
Jyoti	15

How many toffees does Germia have ?

Represent it by tally marks.



[Watch Video Solution](#)

**8.** Students of a class were tested to find their pulse rate. The following figures were obtained for the number of beats per minute.

70, 60, 70, 68, 67, 62, 71, 71, 59, 73, 73, 60, 60, 62,

6, 68, 70, 70, 74, 69

How many students are there whose pulse rate is more than 60 per minute ?



[Watch Video Solution](#)

9. Given below are the marks obtained by 15 students of a class in a test.

26, 39, 21, 25, 30, 28, 22, 19, 20, 43, 6, 17, 18, 20,  
40

If the student who got less than 20 marks is

declared to be fail, then how many students are pass ?



[Watch Video Solution](#)

## Exercise Subjective Problems Short Answer Type

1. The sales of rings on different days of the week is shown below. Based on the information given in pictograph, answer the following questions.

Days	Number of rings
Monday	<i>o o o o o o</i>
Tuesday	<i>o o o o</i>
Wednesday	<i>o o o</i>
Thursday	<i>o o</i>
Friday	<i>o o o o o o o o</i>
Saturday	<i>o o o o</i>
Sunday	<i>o o o o o o o o o</i> <i>o</i>
Each <i>o</i> represents 2 rings.	







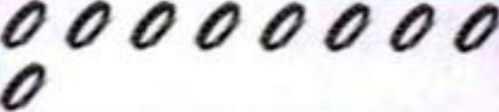

How many rings were sold on Tuesday ?



**Watch Video Solution**



2. The sales of rings on different days of the week is shown below. Based on the information given in pictograph, answer the following questions.

Days	Number of rings
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	
Saturday	
Sunday	
Each  represents 2 rings.	

On which day, the maximum number of rings were sold ?



[Watch Video Solution](#)

3. The birth rate per thousand of five countries over a period of time is shown below.

Country	China	India	Germany	U.K.	Sweden
Birth rate per thousand	35	42	14	49	28

Country with the highest and lowest birth rate respectively is:



[Watch Video Solution](#)

4. A dice was thrown 26 times and following outcomes were noted.

4, 3, 3, 2, 5, 4, 4, 6, 1, 2, 2, 3, 4, 6, 2, 3, 3, 4, 5, 6, 3,  
2, 1, 3, 4, 3.

Represent the above data in the tubular form using tally marks.



[Watch Video Solution](#)

5. The heights (in cm) of 20 boys of Class VI are : 140, 138, 139, 140, 140, 147, 139, 139, 139, 139, 140, 147, 138, 140, 139, 140, 147, 147, 138, 139.

Which height has the maximum frequency and the minimum frequency in the given data ?



[Watch Video Solution](#)

6. Draw a pictograph for representing the number of students in each class based on the

given data.

Class	I	II	III	IV	V
Number of students	70	70	60	50	40



[Watch Video Solution](#)

7. The data for the various height (in ft) of students in a class is given below :

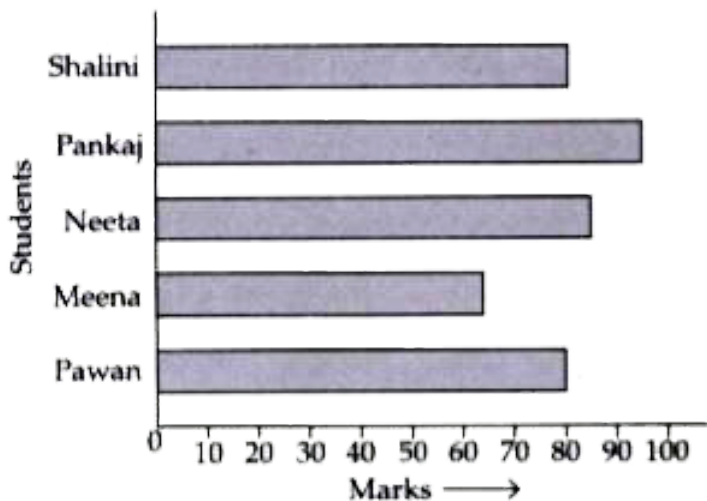
4 5 2 2 5 4 3 4 5 5 3 2 4 2 2 2 2 3

Make a table using tally marks.



[Watch Video Solution](#)

8. The given bar graph shows the marks obtained by students in a Science test.










Who scored the highest marks in the test ?

Whats in the score ?



[Watch Video Solution](#)

9. Given below is the pictorial representation of various kind of apples in a food store which were sold.




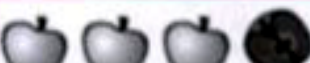



Types of Apples	Number of Apples
Red Delicious	
Golden Delicious	
Red Rome	
Mcintosh	
Jonathan	
Each  represents 12 apples and each  represents 6 apples	

What is the total number of apples sold for golden delicious and Jonathan varieties ?



Watch Video Solution

10. Given below is the pictorial representation of various kind of apples in a food store which were sold.

Types of Apples	Number of Apples
Red Delicious	
Golden Delicious	
Red Rome	
Mcintosh	
Jonathan	
Each  represents 12 apples and each  represents 6 apples	



How many apples were sold of McIntosh variety ?



**Watch Video Solution**

**11.** Given below data is the marks in maths test of 30 children of Class VI out of 35.

32, 28, 27, 31, 35, 32, 35, 30, 32, 35, 27, 32, 30, 31,

33, 35, 34, 27, 30, 33, 31, 34, 27, 28, 32, 30, 27, 30,

31.

Arrange the data in decreasing order in frequency table using tally marks.



[Watch Video Solution](#)

12. Draw a pictograph to represent the data given below :

Years	2011	2012	2013	2014
Number of trees planted	40	20	60	30



[Watch Video Solution](#)

**Exercise Subjective Problems Long Answer Type**

1. The following table shows the marks obtained by Sumit in the annual examination.

English	Maths	Hindi	Sanskrit	Science	Social Studies
50	40	60	70	50	55

Draw a bar graph to show the above information.



[Watch Video Solution](#)

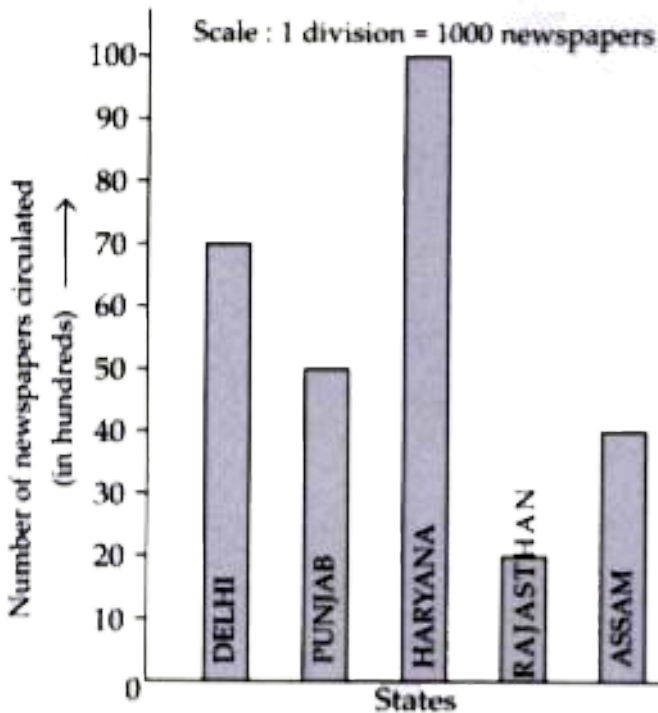
2. Which colour T-shirt is worn by 48 boys?

Colour of T-shirt	Red	Blue	Orange	Pink	Green
No. of boys	40	52	36	48	30



Watch Video Solution

3. Read the bar graph and answer the following questions.

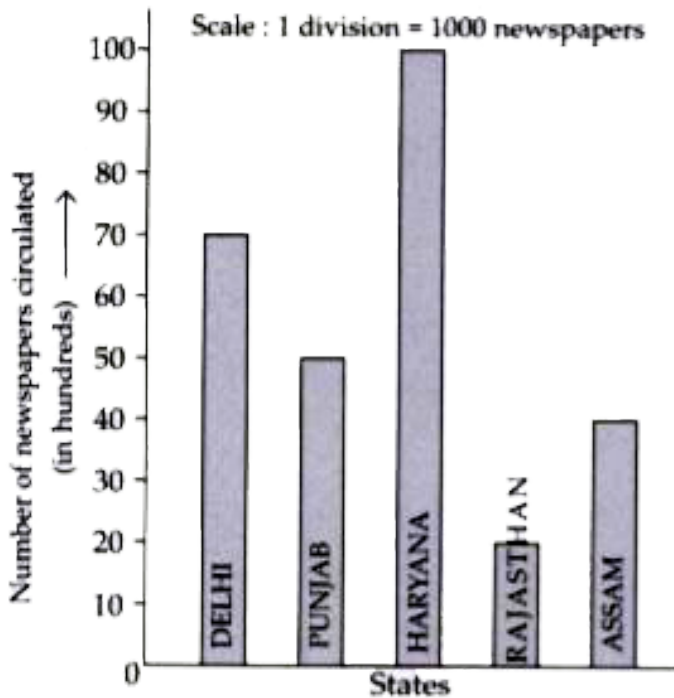


What information is given by graph ?



Watch Video Solution

4. Read the bar graph and answer the following questions.

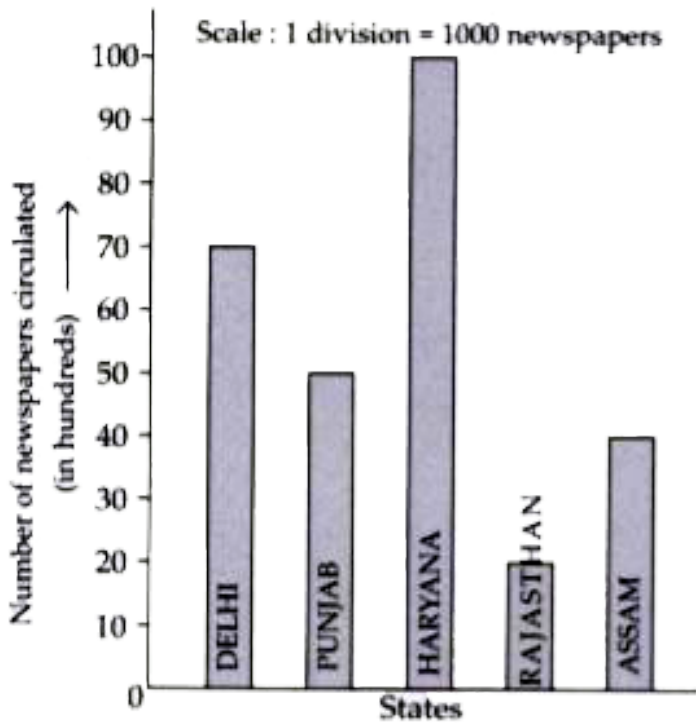


Name the state in which 2000 newspapers are circulated.



**Watch Video Solution**

5. Read the bar graph and answer the following questions.



What is difference between the newspapers circulated in Haryana and Delhi ?



[Watch Video Solution](#)

6. The table shows the number of students playing four different games.

Games	Number of students
Football	200
Hockey	160
Cricket	120
Badminton	80

Present this information as a pictograph.








[Watch Video Solution](#)

7. Following pictograph shows favourite colour of boys in a colony. Study it and answer the



following questions.






Colour	No. of boys
Green	
Pink	
Red	
Blue	
Each  represents 5 boys.	

What is the total number of boys in the colony  
?



[Watch Video Solution](#)

8. Following pictograph shows favourite colour of boys in a colony. Study it and answer the following questions.






Colour	No. of boys
Green	
Pink	
Red	
Blue	
Each  represents 5 boys.	

Which two colours are liked by same number of boys ?



Watch Video Solution

9. Following pictograph shows favourite colour of boys in a colony. Study it and answer the following questions.

Colour	No. of boys
Green	
Pink	
Red	
Blue	
Each  represents 5 boys.	

How many more boys liked pink colour than red colour ?



Watch Video Solution

10. Following pictograph shows favourite colour of boys in a colony. Study it and answer the following questions.

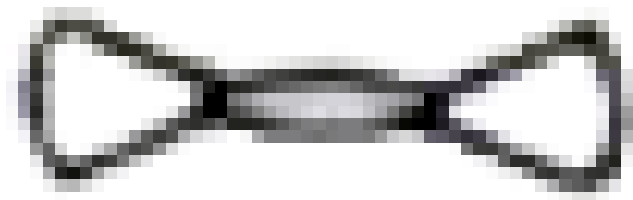
Colour	No. of boys
Green	☺☺☺☺☺
Pink	☺☺☺☺
Red	☺
Blue	☺☺☺☺
Each ☺ represents 5 boys.	

Which colour is most liked by boys ?



Watch Video Solution

# Exercise Subjective Problems Integer Numerical Value Type



1. If

represents 2 toffees, then



represents how many toffees ?



[Watch Video Solution](#)

2. Which number does  $\text{||||} \text{ / } |$  represents ?



**Watch Video Solution**

3. The frequency of 2 in the data 1, 1, 2, 2, 3, 3, 4, 4, 2, 2, 3, is \_\_\_\_\_ .



**Watch Video Solution**

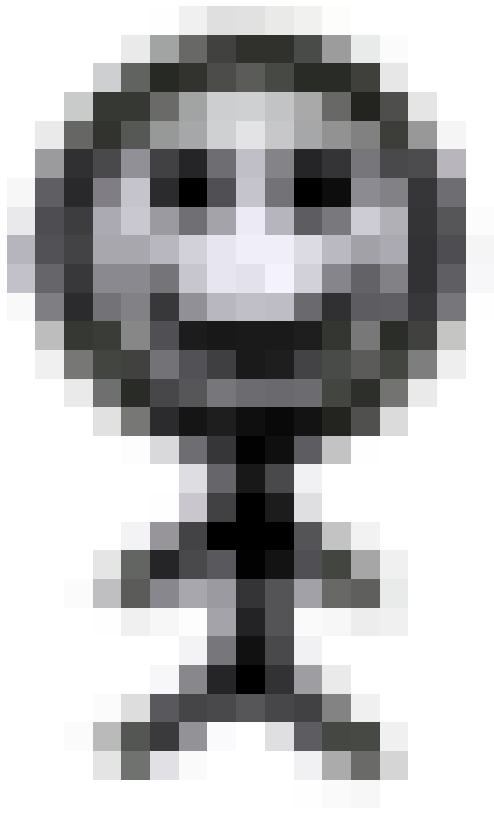
4. Consider the runs scored by five friends in a match.

Persons	Runs scored
Jatin	80
Pradeep	85
Rohit	60
Dewanshu	80
Jitesh	72

If sum of Pradeep's and Rohit's scores is  $10 \times m + n$ , then what is the value of  $m + n$  ?



[Watch Video Solution](#)



5. If

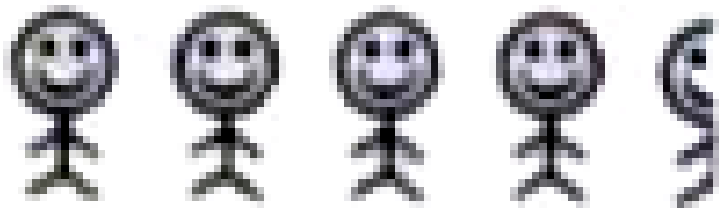
represents

8

persons,

then



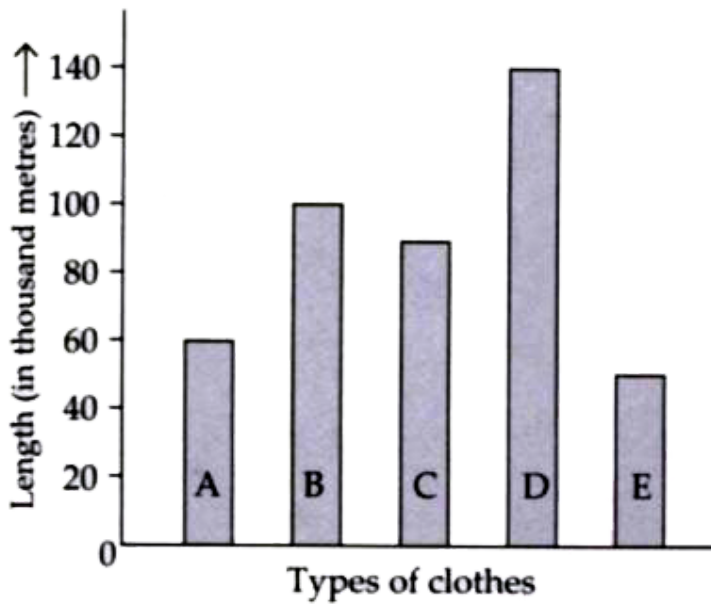


represents \_\_\_\_\_ persons.



[Watch Video Solution](#)

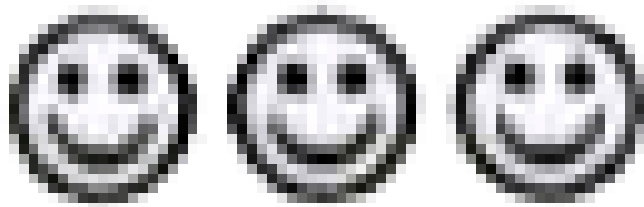
6. The bar graph shows the approximate length of different types of clothes produced in a factory.



If the length of cloth B produced is  $P$  metres, then the value of  $P \div 5$  thousand is \_\_\_\_\_ .



[Watch Video Solution](#)



7. If

= 15

students,

then























represents how many students ?



Watch Video Solution

8. The given pictograph shows the sale of houses by a property dealer in different months.

Months	No. of houses sold
January	     
February	  
March	    
April	  
May	 
Each  represents 1 house.	

How many houses did the dealer sold in February and March altogether ?



[Watch Video Solution](#)

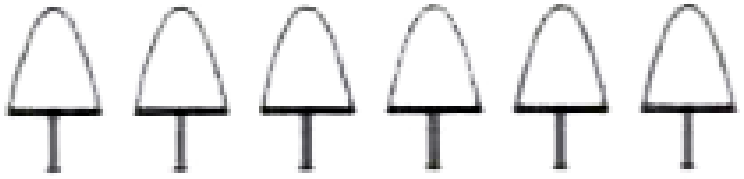
9. The given table shows the types of chocolates children like in a society.

Chocolates	Tally marks
Dairy milk	
Kit Kat	
Perk	
Munch	

How many more students like Dairy milk than Munch ?

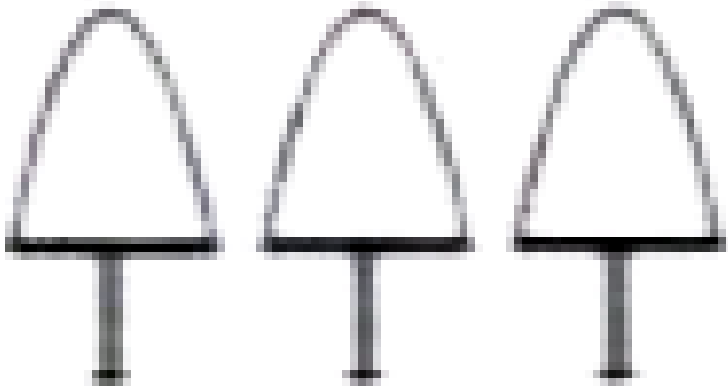


[Watch Video Solution](#)



10. If

represents 18 ice creams, then how many ice



creams

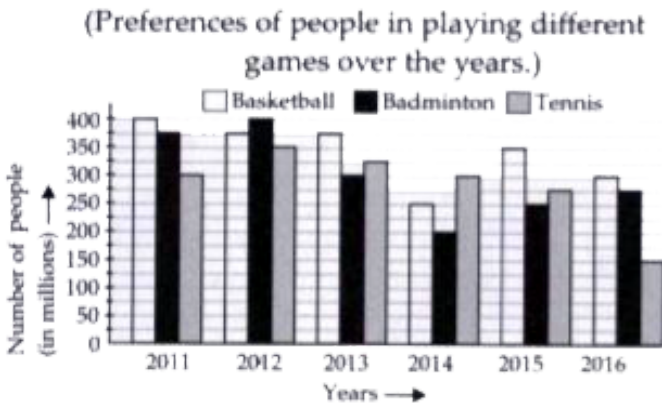
represents ?



[Watch Video Solution](#)

# Olympiad Hots Corner

1. Study the bar graph given below and answer the following questions.



From 2011 to 2016, find the difference between the total number of people who preferred to play Basketball and Badminton (in millions) ?

A. 525

B. 275

C. 730

D. 250

**Answer: D**

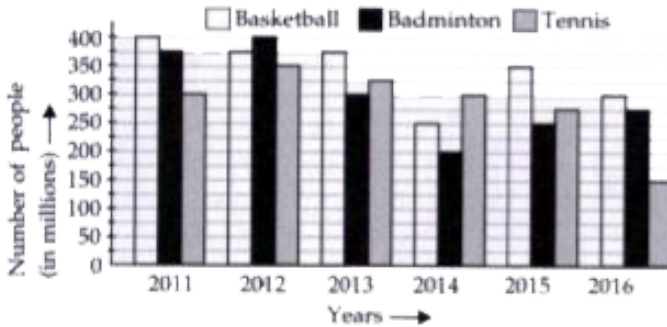


**Watch Video Solution**

**2. Study the bar graph given below and answer the following questions.**



(Preferences of people in playing different games over the years.)



How many people (in millions) have preferred to play Tennis in all years altogether ?

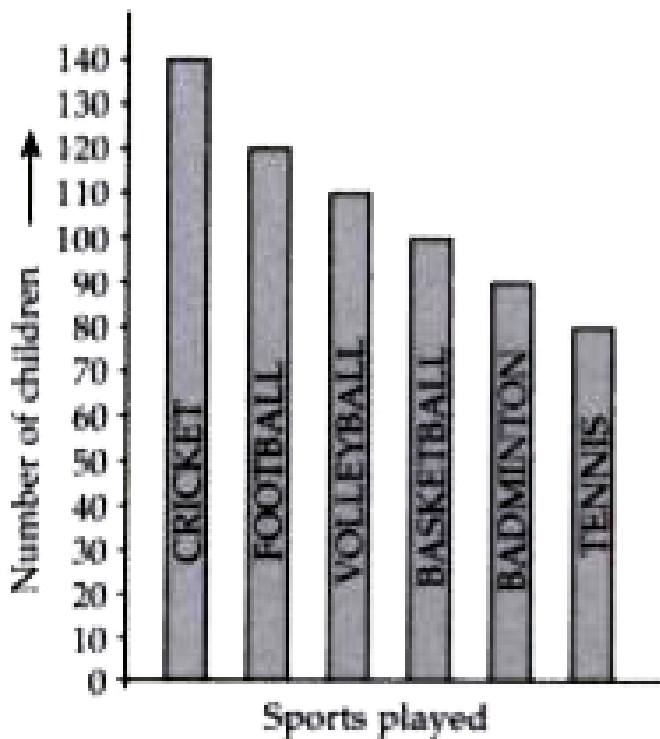
- A. 3200
- B. 2100
- C. 1200
- D. 1700

**Answer: D**



Watch Video Solution

3. Study the given graph carefully and answer the following questions.



What fraction of the total number of children plays football ?

A.  $\frac{3}{16}$

B.  $\frac{13}{64}$

C.  $\frac{11}{64}$

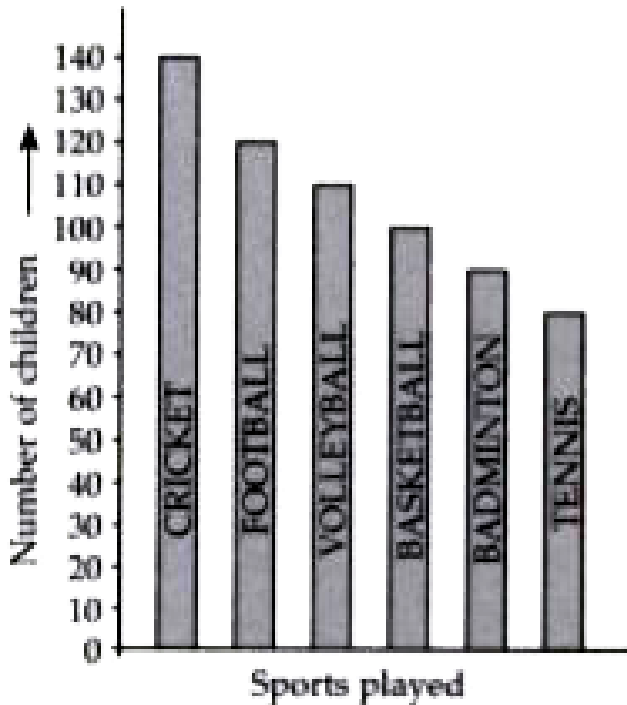
D.  $\frac{5}{32}$

**Answer: A**



**Watch Video Solution**

4. Study the given graph carefully and answer the following questions.



The difference between the number of children who play tennis and cricket together & basketball and volleyball together is

A. 20

B. 40

C. 10

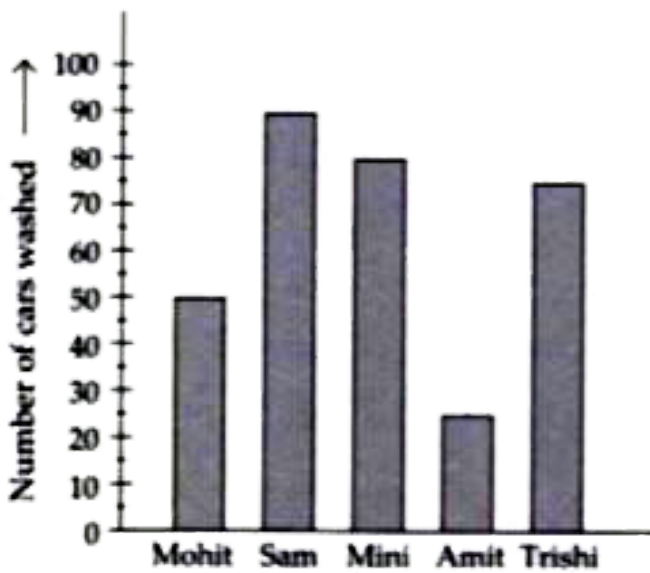
D. 50

**Answer: C**



**Watch Video Solution**

5. The given bar graph shows number of cars washed by five friends to raise money for local children hospital.



What is the difference between the number of cars washed by (Trishi and Sam) & (Mohit and Mini) ?

- A. 20
- B. 30
- C. 35

D. 25

**Answer: C**



**Watch Video Solution**

6. The given table shows the number of chapatis Ms sharma made on each day in a week.

Days	Number of chapatis
Monday	≡
Tuesday	≡ ≡
Wednesday	≡
Thursday	
Friday	≡
Saturday	≡ ≡
Sunday	≡

How many chapatis did she make in the whole week ?



[Watch Video Solution](#)

7. The given table shows the number of chapatis Ms sharma made on each day in a



week.

Days	Number of chapatis
Monday	/// IIII
Tuesday	/// ///
Wednesday	///
Thursday	IIII
Friday	/// IIII
Saturday	/// /// II
Sunday	/// III

If each chapati was made using 9g of flour, then quantity of flour used on Friday was \_\_\_\_\_ g.

A. 100

B. 81

C. 90

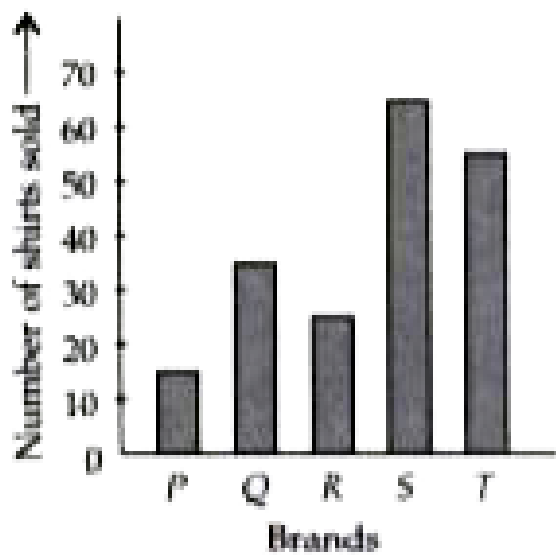
D. 99

**Answer: B**



**Watch Video Solution**

**8.** The given bar graph shows the sale of different brands of shirts in a shop in one month.



(i) How many total shirts are sold in the month ?

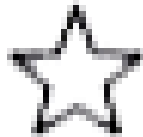


[Watch Video Solution](#)

9. The total number of students who applied for scholarship in the last five years is given

below :

Year	2008	2009	2010	2011	2012
No. of students	3000	3500	4000	4500	5000



Using the symbol  to represent 500 students, answer the following questions.

(i) How many symbols are needed to represent the number of students in 2010 ?

(ii) How many more symbols are needed to represent the number of students in 2012 than in 2009 ?

A. (i) 7, (ii) 4

B. (i) 7, (ii) 3

C. (i) 8, (ii) 4

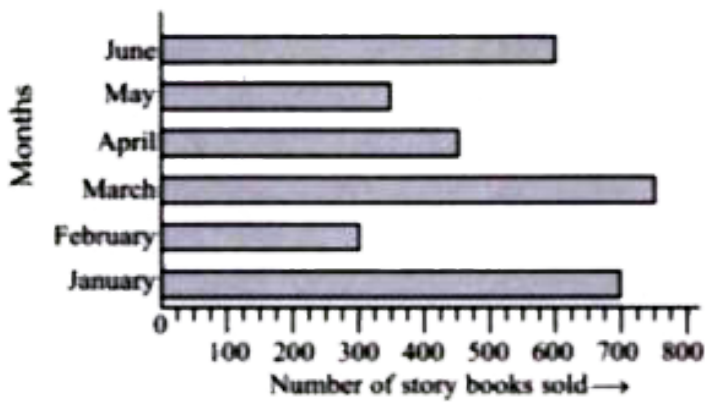
D. (i) 8, (ii) 3

**Answer: D**



**Watch Video Solution**

**10.** The given graph shows the sale of story books in a bookshop for the first 6 months.



In which month, the sale of story books was  $\frac{5}{4}$  of the sale of books in June ?

- A. February
- B. March
- C. April
- D. May

**Answer: B**



**Watch Video Solution**