Lesson 5 – Bar Graphs

In statistics, it is very common to use a bar graph to represent your data.

This type of graph is used to show how often a specific result occurs.
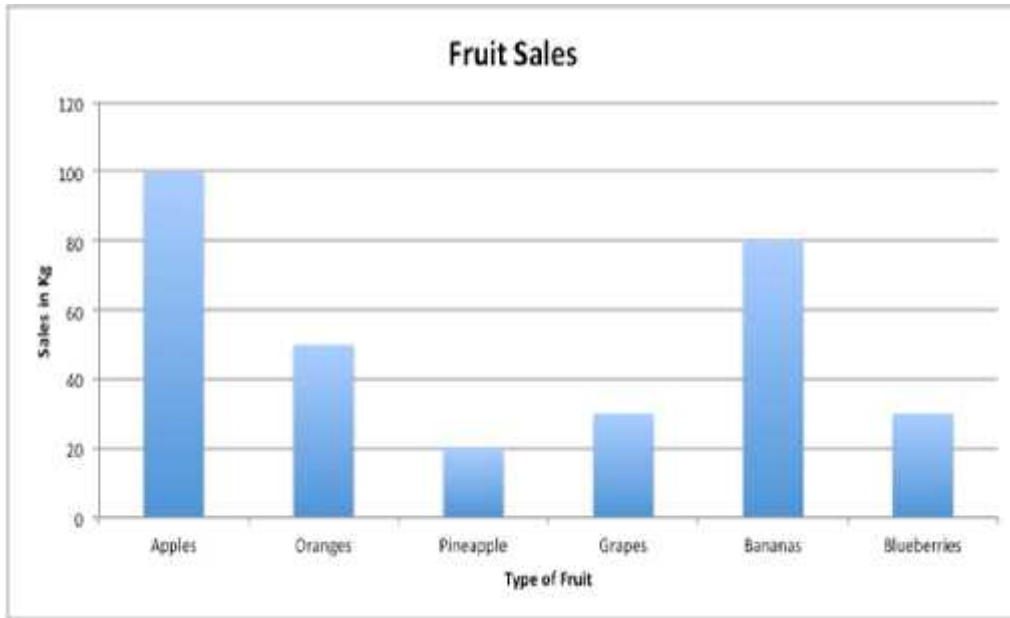
For example, we could use a bar graph to show how many people are a certain age, in a certain grade, wear a certain size of shoe…etc.

Whenever you make a bar graph there are several things you need to include:

1. You need to fully label each axis so we know what is going on. If you are looking at age, you need to write that in since the numbers alone don't give enough information.

2. You need to make sure that the scale on your graph is evenly labelled. You cannot let 1cm equal 10 and then let 2cm also equal 10.

Example 1:

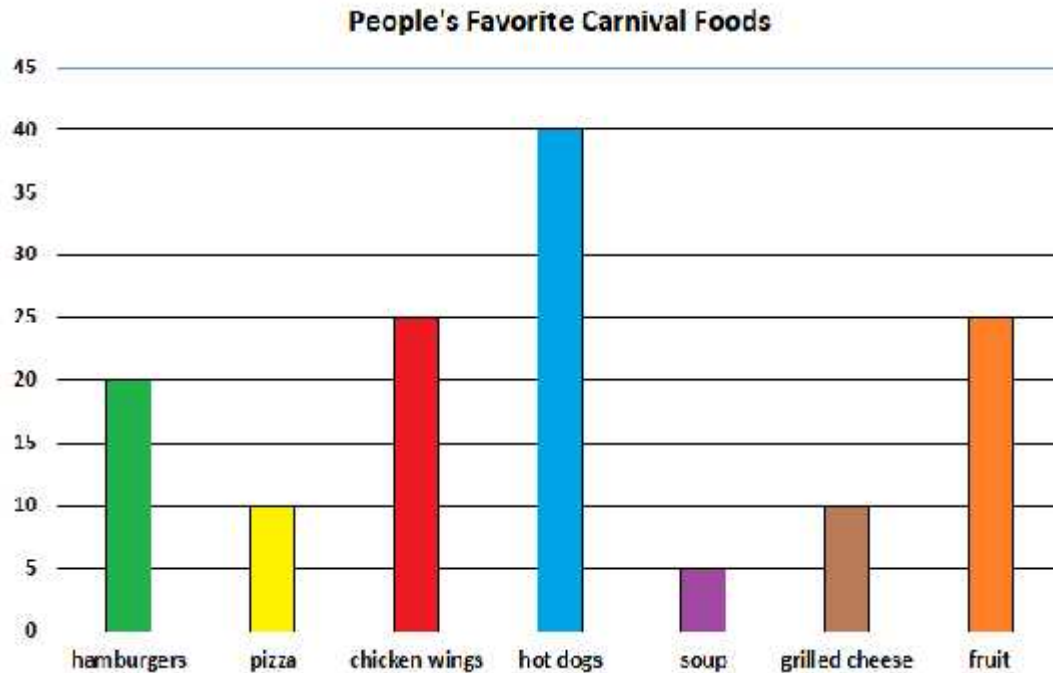The following graph show how much of each type of fruit has been sold at the grocery store.

Create a Table of Values for the data on this chart

Fruit Sales

Type of Fruit	Sales In Kg
Apples	100
Oranges	50
Pineapple	20
Grapes	30
Bananas	80
Blueberries	30

Example 2:
A survey was done to determine what people's favorite foods were when they go to the carnival. A graph of the results is given below.

Given the following graph, fill in the table of values that represents the data.

People's Favorite Carnival Foods

Favorite Food	# of People
Hamburgers	
Pizza	
Chicken Wings	
Hot Dogs	
Soup	
Grilled Cheese	
Fruit	

The Next Steps:

In most surveys we usually have data in a very large table that needs to be sorted into categories. After creating the categories, we need to count how many people are in each.

Example 3:

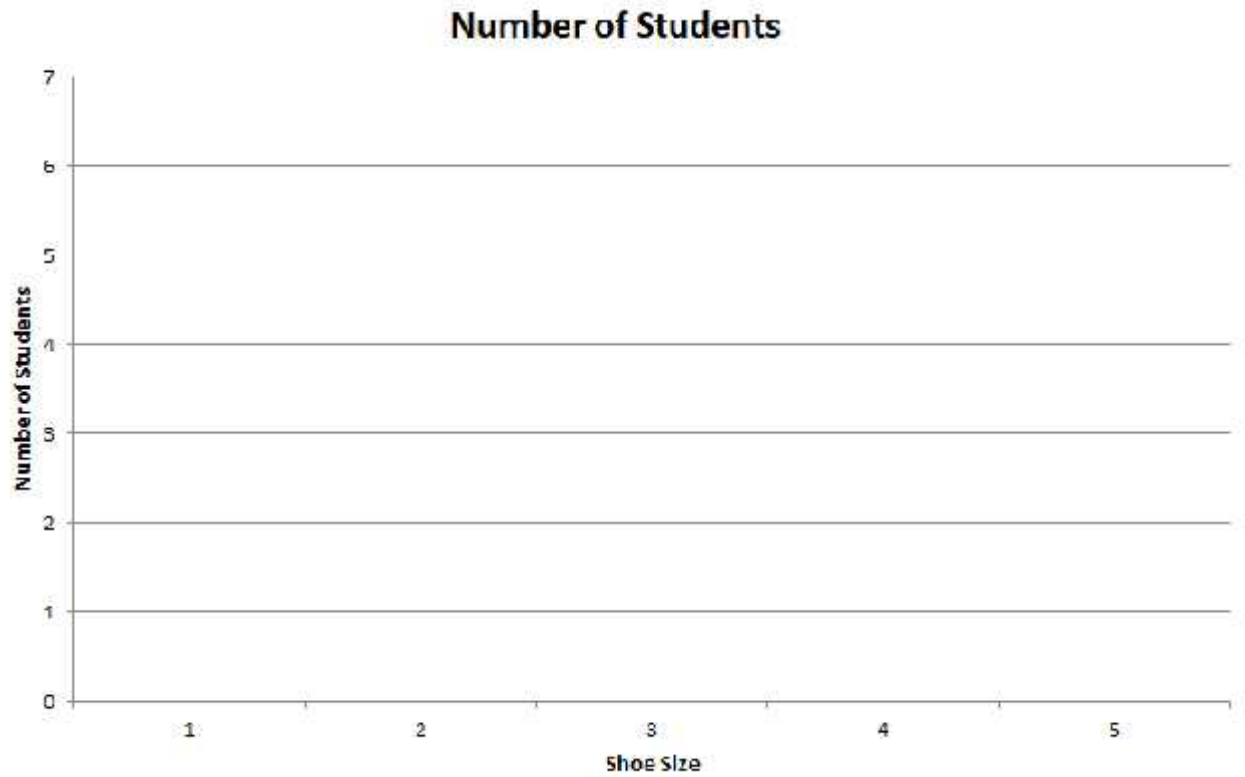The shoe sizes of everyone in Grade 7 is given in the table below.

6	8	5	6	7	9
7	5	8	7	6	6
8	6	7	6	7	7

Create a Table of Values that shows how many of each shoe type is worn.

Shoe Size	Number of Students
5	
6	
7	
8	
9	

Create a Bar Graph that represents the data in the table of values.

Shoe Size	Number of Students
5	2
6	6
7	6
8	3
9	1

Number of Students

Question 1:
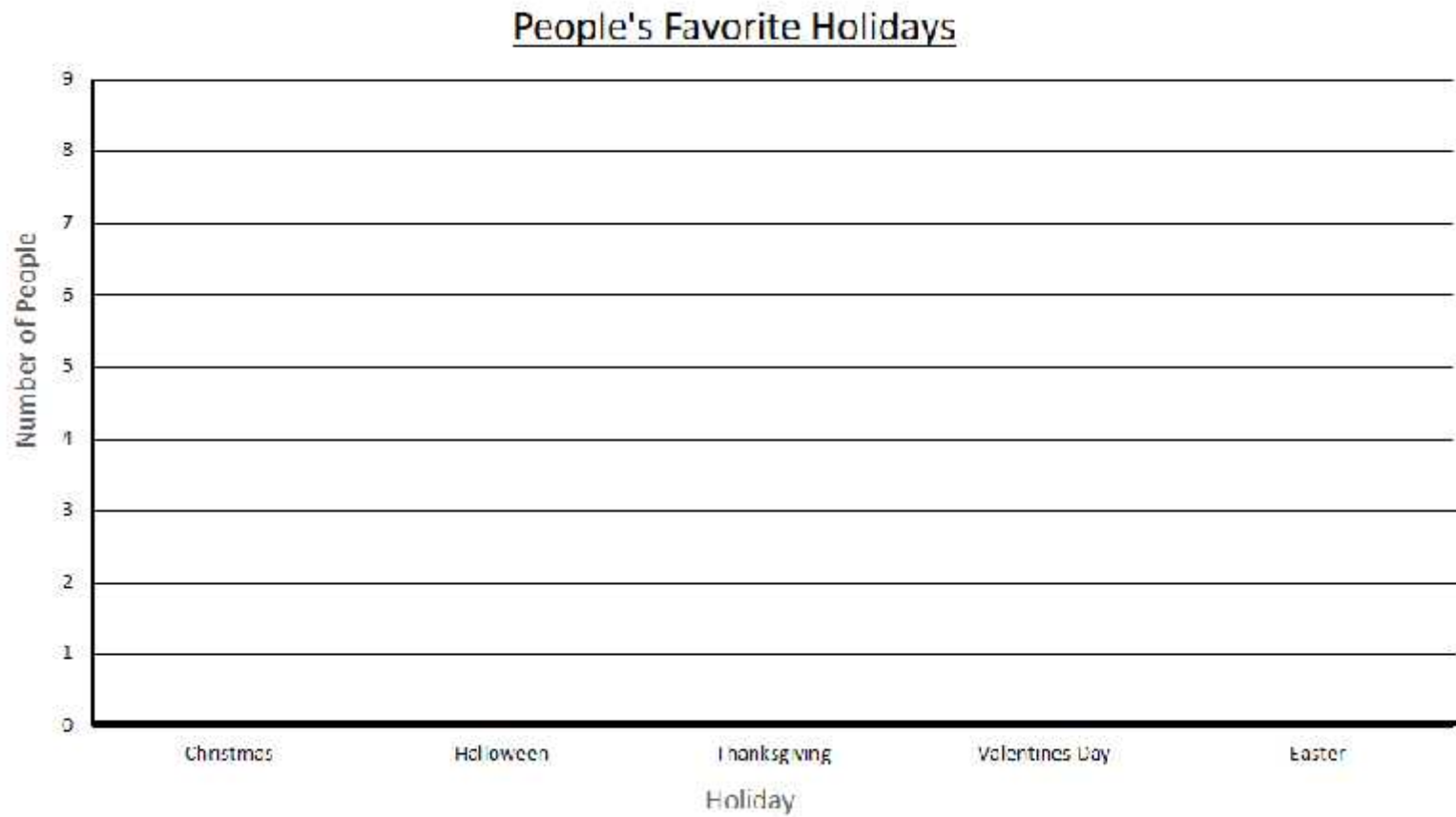
People were asked what their favorite holiday was. The results are in the table below.

Christmas	Valentines Day	Easter	Halloween
Halloween	Christmas	Christmas	Valentines Day
Thanksgiving	Christmas	Halloween	Christmas
Halloween	Thanksgiving	Christmas	Thanksgiving
Christmas	Valentines Day	Easter	Christmas

Create a table of values that will summarize the results.

Holiday	Number of People
Christmas	
Halloween	
Thanksgiving	
Valentines Day	
Easter	

Create a Bar Graph that will represent your data.

People's Favorite Holidays

Question 2:

The students in the grade 9 class were surveyed to find out what their shoe sizes are. The results are listed in the chart below.

7	6	8	9
9	8	9	10
8	10	12	7
9	8	9	11
8	10	9	10

Create a table of values that will summarize the results.

Shoe Size	Number of People
6	
7	
8	
9	
10	
11	
12	

Create a Bar Graph that will represent your data.

Grade 9 Shoe Size

Shoe Size

Practice: Worksheet