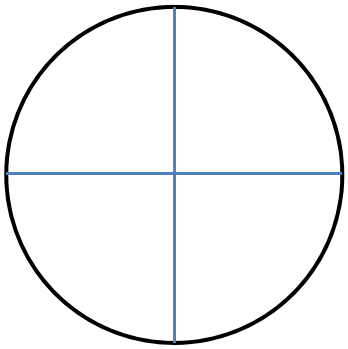
Data Displays 2 NAME:

1. Below is the breakdown of the six most populous religious affiliations among the world's people in 1994. Find the percentage of people in each religion and make a pie chart. Label and title your pie chart appropriately. (source: 1996 *Information please Almanac*)

Religion	**Number of practitioners**	**Percent of Total (Nearest Percent)**
Christians	1,900,174,000	
Muslims	1,033,453,000	
Nonreligious	924,078,000	
Hindus	764,000,000	
Buddhists	338,621,000	
Atheists	239,111,000	
Other	462,088,000	
Total	**5,661,525,000**	**100%**



2. The following data details the percentage of households in the US who have an outdoor gas grill in various years from 1982 to 1993. Why is it ***not*** a good idea to make a pie chart for the data? (source: 1996 *Information please Almanac*)

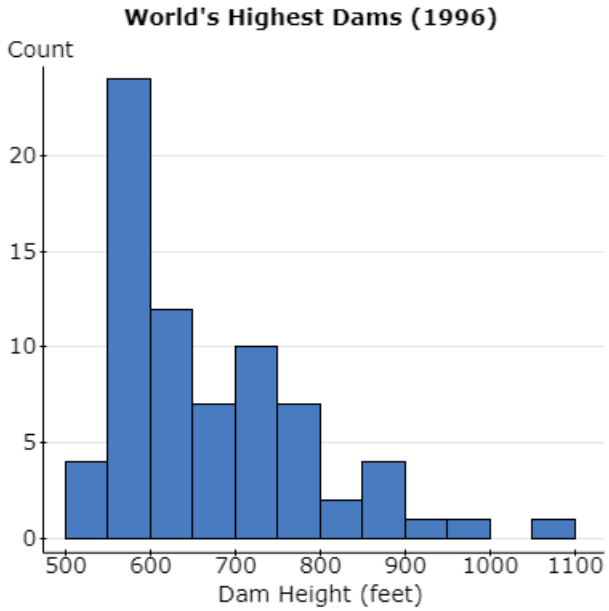
Year	**Percentage of households with an outdoor gas grill**
1982	11
1984	13
1987	20
1990	26
1993	29

Are these numbers parts out of a whole like the data above?

3. The table below contains a sample of the world's highest dams and their heights in feet. Make a stemplot of this data using the hundreds and tens digits as the stem and the ones digits as the leaves. Label and title it appropriately. (source: 1996 *Information please Almanac*)

Name of dam	**Country**	**Height in feet**
Inguri	Georgia	892
Chicoasen	Mexico	869
Vaiont	Italy	869
Tehri	India	856
Mica	Canada	794
Mihoesti	Romania	794
Chivor	Colombia	778
Mauvoisin	Switzerland	777
Oroville	United States	770
Chirkey	Ukraine	764
Bhakra	India	741
El Cajon	Honduras	741

4. Concerning the data from the last question, there are 73 dams listed in my almanac under world's tallest dams. Here, I have drawn both a histogram and stemplot for the complete list of dams. Explain why the histogram would be preferable over the stemplot.



Decimal point is 1 digit(s) to the right of the colon.
Leaf unit = 1

```
 54 : 0158
 55 : 02248
 56 : 1144
 57 : 447
 58 : 0457
 59 : 00111111
 60 : 02477
 61 : 00
 62 : 35
 63 : 07
 64 : 0
 65 : 66
 66 : 26
 67 : 9
 68 : 29
 69 :
 70 : 35
 71 : 07
 72 : 2226
 73 :
 74 : 11
 75 :
 76 : 4
 77 : 078
 78 :
 79 : 444
```

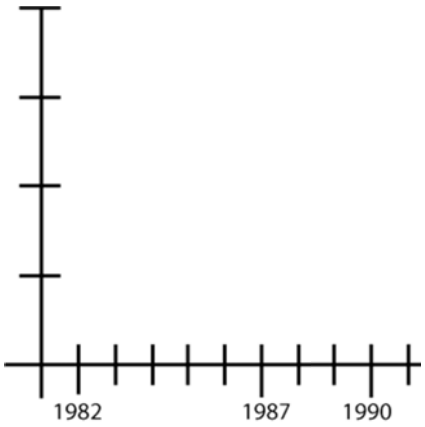
(Seriously, it just goes on and on. I had to curtail it to fit it on the page.)

```
 98 : 4
 99 :
100 :
101 :
102 :
103 :
104 :
105 :
106 : 6
```

5. The table below shows the number of state officials convicted for public corruption from 1982 to 1991. (source: 1996 *Information please Almanac*)

Year	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Number convicted	43	65	52	66	71	76	69	54	79	77

Make a line graph that you would use to convince people that the problem of public corruption is soaring out of control. Label and title your graph as well as mark the vertical axis with appropriate numbers.



Make a line graph that you would use to convince people that the problem of public corruption is under control and **not** a troubling problem on the rise. Label and title your graph as well as mark the vertical axis with appropriate numbers.