

1. The given data represent the federal minimum hourly wage in the years shown. Draw a time series graph to represent the data and analyze the results.

Year	Wage
1960	\$1.00
1965	1.25
1970	1.60
1975	2.10
1980	3.10
1985	3.35
1990	3.80
1995	4.25
2000	5.15

Source: *The World Almanac and Book of Facts*.

2. The number of bank failures in the United States during the years 1989–2000 is shown. Draw a time series graph to represent the data and analyze the results.

Year	failures
1989	207
1990	169
1991	127
1992	122
1993	41
1994	13
1995	6
1996	5
1997	1
1998	3
1999	8
2000	7

Source: *The World Almanac and Book of Facts*.

3. The data shown here represent the percentage of the voting-age population that voted in the Presidential elections shown. Draw a time series graph and analyze the results.

Year	1980	1984	1988	1992	1996	2000
Percent	54.0	53.1	50.2	55.9	49.0	50.7

Source: *The World Almanac and Book of Facts*.

4. In a study of 100 women, the numbers shown here indicate the major reason why each woman surveyed worked outside the home. Construct a pie graph for the data and analyze the results.

<u>Reason</u>	<u>Number</u>
To support self/family	62
For extra money	18
For something different to do	12
Other	8

5. The data represent the number of motor vehicles (in millions) registered in the U.S. and the number of crashes (in millions). (*Source: U.S. National Highway Safety Traffic Administration*)

Year	2000	2001	2002	2003	2004	2005	2006	2007
Registrations	221	230	230	231	237	241	244	247
Crashes	6.4	6.3	6.3	6.3	6.2	6.2	6.0	6.0

- (a) Use a scatter plot to display the number of registrations.
 (b) Use a scatter plot to display the number of crashes.
 (c) Construct a time series chart for the number of registrations.
 (d) Construct a time series chart for the number of crashes.