

Statistics S1 – Basic Stats

Find the mean, median and mode of the following:

1. 4, 7, 3, 7, 2, 8, 1, 9, 10, 9
2. 3, 5, 12, 18, 22, 22, 18, 12, 5, 3
3. 14, 15, 21, 9, 2, 4, 6, 3, 5
4. 2, 7, 30, 26, 15, 3, 7, 12, 5, 16, 26, 5

5. Your previous test scores have been 86, 94, 85, and 85. You want to get at least a A- in the class (90%). What do you need to score on the last test to get a 9 or higher?

State	Men	Women
Michigan	70,000	52,000
Pennsylvania	70,000	50,000
Nebraska	58,000	42,000
Ohio	67,000	49,000
Virginia	82,000	55,000

6. The table on the left shows the median annual average earnings for college graduates over the age of 25. Make a double bar graph to represent the data.

Month	Low Temp	Month	High Temp
Jan	16	Jul	61
Feb	18	Aug	60
Mar	26	Sep	53
Apr	36	Oct	42
May	47	Nov	32
Jun	57	Dec	22

7. The table on the left shows the average low temperature in Pontiac, Michigan.

Make a line graph to represent the data.

8. The number of dogs in the White house since President Eisenhower are as follows:

Eisenhower	1	Kennedy	9
Johnson	6	Nixon	4
Ford	1	Carter	1
Reagan	2	G.H.W.Bush	2
Clinton	1	G.W.Bush	3
Obama	1		

- A. Make a histogram of the data.
- B. How many presidents owned more than 2 dogs?
- C. What percent of Presidents owned only 1 dog?
- D. Find the mean, median, and mode of the data.

9. The following are the box office results for the last 20 movies starring Brad Pitt. Draw a histogram for the data. (Use intervals of a width of 50,000,000)

2015	The Big Short	\$45,320,882	2010	Megamind	\$148,415,853
2015	By the Sea	\$538,460	2009	Inglourious Basterds	\$120,540,719
2014	Fury	\$85,817,906	2008	The Curious Case of Benjamin Button	\$127,509,326
2013	The Counselor	\$16,973,715	2008	Burn After Reading	\$60,355,347
2013	12 Years a Slave	\$56,671,993	2007	The Assassination of Jesse James by the Coward Robert Ford	\$3,909,149
2013	World War Z	\$202,359,711	2007	Ocean's Thirteen	\$117,154,724
2012	Killing Them Softly	\$15,026,056	2006	Babel	\$34,302,837
2011	Happy Feet Two	\$64,006,46	2005	Mr. & Mrs. Smith	\$186,336,279
2011	Moneyball	\$75,605,492	2004	Ocean's Twelve	\$125,544,280
2011	The Tree of Life	\$13,303,319	2004	Troy	\$133,378,256