

Homework assignment 1

1. For commercial banks in each state, the U.S. Federal Deposit Insurance Corporation has listed their total deposits (billions of dollars) as follows.

Deposits		Deposits		Deposits	
AL	74.3	LA	73.0	OH	209.1
AK	6.9	ME	20.0	OK	57.4
AZ	80.0	MD	95.0	OR	47.9
AR	47.4	MA	180.8	PA	259.4
CA	751.0	MI	154.7	RI	25.5
CO	81.3	MN	106.2	SC	64.1
CT	81.0	MS	41.6	SD	63.3
DE	160.2	MO	102.6	TN	107.2
FL	373.9	MT	14.6	TX	450.0
GA	177.9	NE	36.0	UT	181.7
HI	26.8	NV	188.1	VT	9.9
ID	17.7	NH	21.5	VA	182.2
IL	338.9	NJ	222.5	WA	105.7
IN	88.6	NM	21.9	WV	25.9
IA	56.6	NY	722.8	WI	109.7
KS	54.0	NC	206.3	WY	10.6
KY	63.2	ND	13.9		

Using this data:

- (a) Construct a frequency table and include relative and cumulative frequencies.
- (b) Construct a histogram using the frequency distribution
- (c) Construct a histogram using relative frequency distribution
- (d) Construct a frequency polygon

- (e) Construct an ogive
- The Campbell Soup Foundation provided the following amounts in grants: Camden, N.J., \$1,336,700; plant communities, \$341,500; Dollars for Doers, \$179,600; other projects, \$64,100. Construct a pie chart to summarize these contributions. Show your work indicating the share of contributions and the corresponding angle on the pie.
 - For the period 2001-2008, the Bristol-Myers Squibb Company, Inc. reported the following amounts (in billions of dollars) for (1) net sales and (2) advertising and product promotion.

Net Sales	Advertising/Promotion
\$16.612	\$1.201
16.208	1.143
18.653	1.416
19.380	1.411
19.207	1.476
16.208	1.304
18.193	1.415
20.597	1.550

Draw a scatter diagram showing the relationship between sales and advertising. Comment on this relationship.