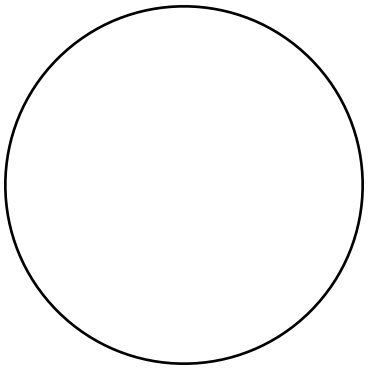
Name _____

Chapter 5 Pre-Opportunity

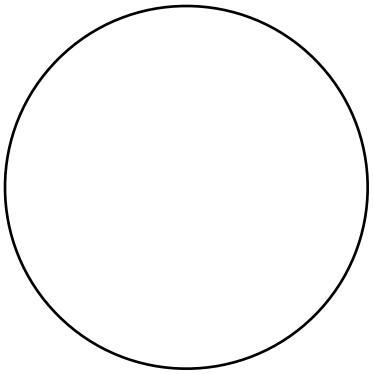
1) Create a circle graph to represent the following data of how many people like what kind of icecream. Use a protractor to create an accurate representation. In the circle graph tell what degree each piece of pie is.

number of people	type of ice cream
50	Vanilla
12	Chocolate
15	Strawberry
1	Pistachio
8	Mint



2) Create a circle graph to represent the following data of how many shoes were sold. Use a protractor to create an accurate representation. In the circle graph tell what degree each piece of pie is.

Type of shoe	Number Sold
Adidas	150
Nike	192
Reebok	60
Asics	108
Other	90



3) Make a line graph showing the height of a plant after a given number of days growing.

Day	0	10	20	30	40	50	60	70	80
inches	0	1	1.5	1.75	2	2.5	2.9	3.5	4

4) Create a bar graph showing the number of fish caught for each year.

	1975	1980	1985	1990	1995	2000	2005
King	10	12	15	18	20	21	20

5) Create a histogram depicting the following test scores on a very difficult math test.
Scores = {75, 75, 85, 95, 100, 65, 62, 55, 85, 65, 75, 55, 100, 90, 90, 90, 90, 85, 75, 80, 65, 82}

6) Write this data in numerical order then find the mean median and mode of this data:
{12, 35,13, 14, 25, 15, 16, 25,18, 19, 35, 29, 28, 25}

Mean _____

Median _____

Mode _____

7) Write this data in numerical order then find the mean median and mode of this data:
{45, 48, 75, 89, 25, 12, 56, 68, 68, 12, 75, 45, 48, 48, 23, 25, 100}

Mean _____

Median _____

Mode _____

Fill in the blanks and create a box and whisker graph using the following data.

8) 12, 15, 23, 26, 32, 42, 45, 48, 53, 59, 65, 75, 78, 86, 89, 115, 225

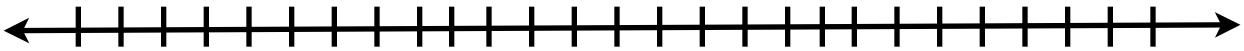
Median _____ Lower Quartile _____ Upper Quartile _____ Outliers _____

Lower Extreme _____ Upper Extreme _____ Range _____

9) 1.5, 2.0, 2.5, 3.5, 3.5, 4.0 4.5, 5.5, 6.0, 6.5, 7.5, 8.5, 8.5,10.5,

Median _____ Lower Quartile _____ Upper Quartile _____ Outliers _____

Lower Extreme _____ Upper Extreme _____ Range _____



10) Using this matrix fill in the blanks.

$$\begin{matrix} 5 & 8 & 9 & 5 & 2 \\ 12 & 15 & 18 & 16 & 11 \\ 21 & 25 & 29 & 22 & 23 \\ 34 & 31 & 36 & 35 & 38 \end{matrix}$$

$e_{2,3}$_____ $e_{3,1}$_____

$e_{3,2}$_____ $e_{3,3}$_____

$e_{4,1}$_____ $e_{1,3}$_____

11) Solve for x,y,z and a,b,c

$$\begin{bmatrix} 2 & x-2 & 8 & 3 \\ y+2 & 2 & 5 & 9 \\ 4 & z+1 & 5 & 6 \end{bmatrix} \equiv \begin{bmatrix} 2 & 7 & 8 & 9/a \\ 10 & 2 & b/5 & 9 \\ c^2 & 11 & 5 & 6 \end{bmatrix}$$

x= _____ a= _____

y= _____ b= _____

z= _____ c= _____