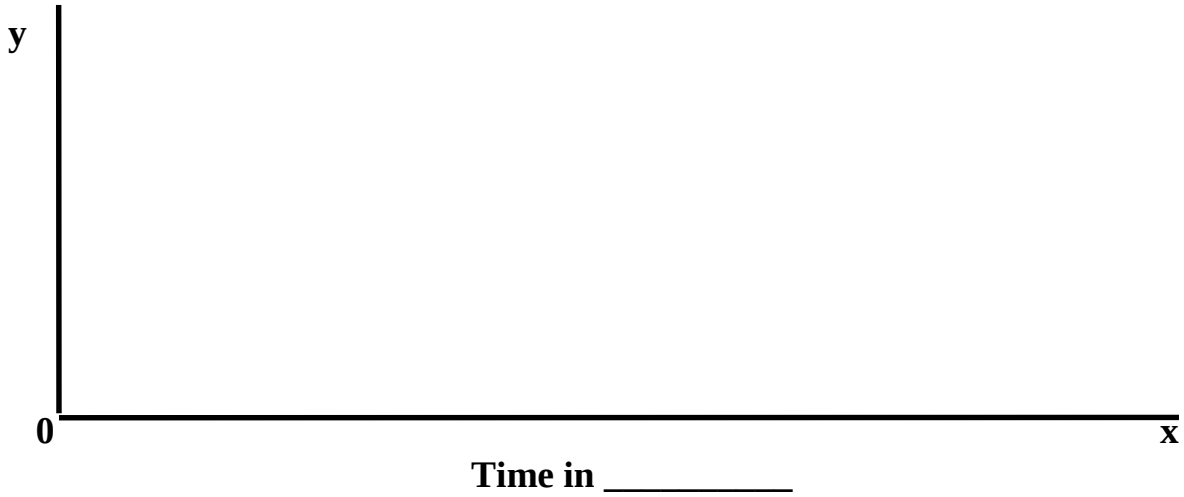
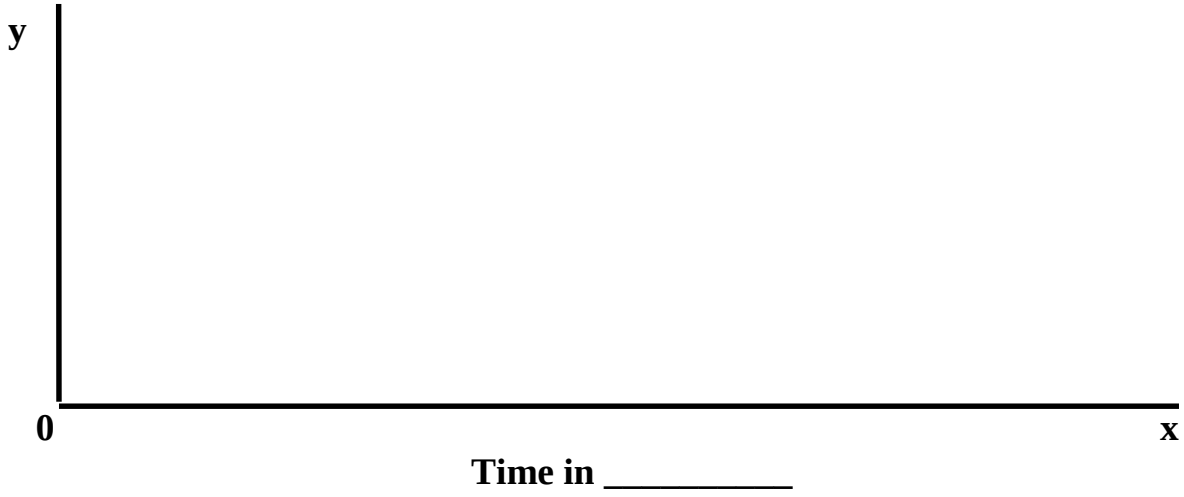
TIME GRAPHS

Topic: _____
Name: _____
Date:_____
_____





0 x

GO.12.1

Time in _____

DATA CHART

Name: _____ Date: _____

Title of Data Chart | A

	B			
I	C		D	
	E	F	G	H

GO.12.2

GRAPH

Name: _____ Date: _____

Title of Graph

The Influence of _____

On _____

Title for this axis is:

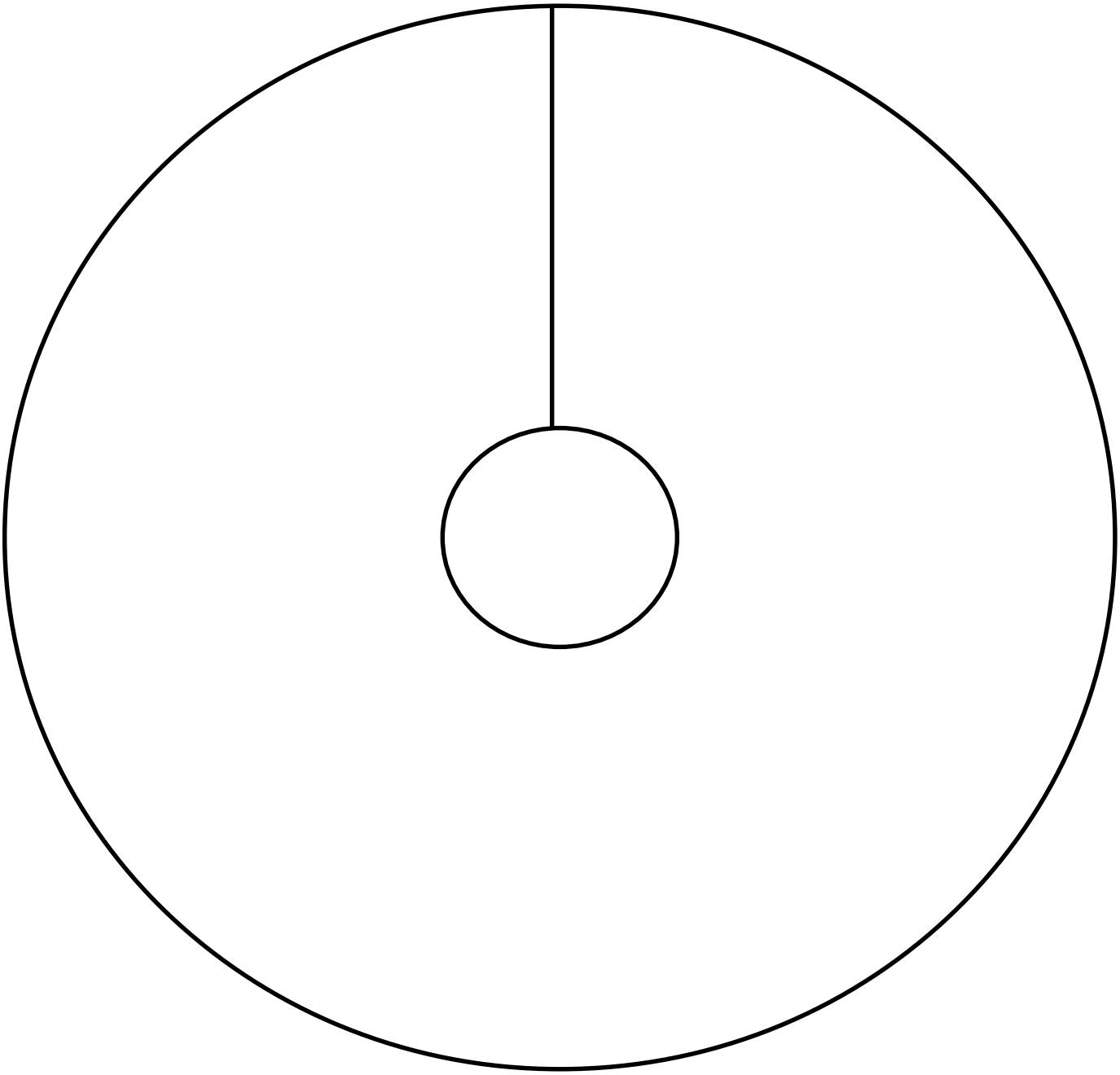
Key

Title for this axis is:

GO.12.3

THE PIE CHART

Name: _____ Class: _____



GO.12.4

GRID

Name: _____ Date: _____

Title for this grid:

Title for this axis is:

Title for this axis is:

GO.12.5

GRID GRAPH

Name: _____ Date: _____

Title

Item or Interval

Item or Interval

GO.12.6

DATA - ROLLER COASTER CHRONOLOGY

The following data represent the number of roller coasters opened in a given year.

Year	# of Coasters	Year	# of Coasters	Year	# of Coasters
1902	1	1909	0	1916	0
1903	0	1910	1	1917	1
1904	0	1911	0	1918	0
1905	0	1912	0	1919	1
1906	0	1913	0	1920	1
1907	0	1914	0	1921	2
1908	0	1915	1	1922	0

1923	1	1949	1	1975	7
1924	2	1950	1	1976	9
1925	2	1951	1	1977	7
1926	1	1952	1	1978	15
1927	6	1953	0	1979	8
1928	1	1954	0	1980	6
1929	1	1955	2	1981	10
1930	1	1956	1	1982	5
1931	0	1957	0	1983	6
1932	0	1958	4	1984	4
1933	1	1959	1	1985	11
1934	0	1960	2	1986	9
1935	1	1961	1	1987	8
1936	0	1962	0	1988	9
1937	1	1963	2	1989	9
1938	1	1964	2	1990	8
1939	0	1965	0	1991	12
1940	2	1966	1	1992	13
1941	1	1967	3	1993	13
1942	0	1968	3	1994	11
1943	0	1969	3	1995	17
1944	0	1970	0	1996	24
1945	0	1971	4	1997	21
1946	2	1972	4	1998	39
1947	0	1973	3	1999	49
1948	2	1974	2		

GO.12.7

ORGANIZING DATA -ROLLER COASTER CHRONOLOGY

Name: _____

Date:_____

20TH CENTURY DECADE	TOTAL # OF COASTERS OPENED
1900s	

GO.12.8

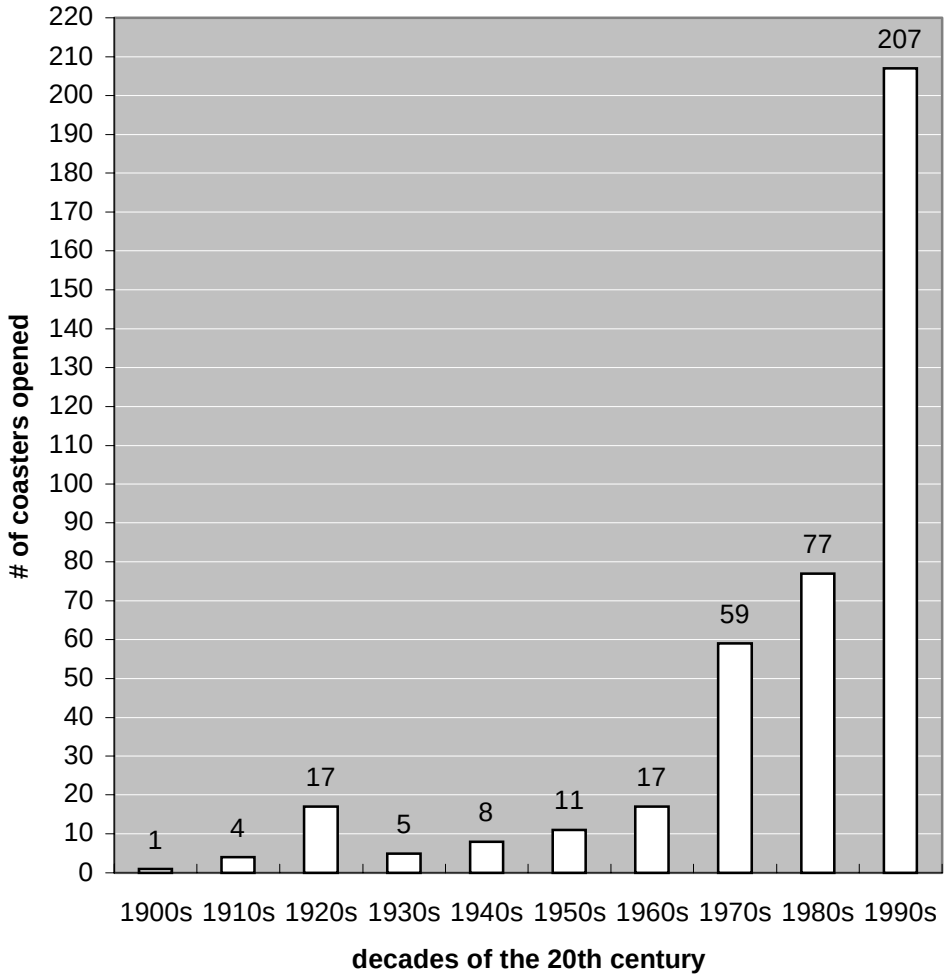
BAR GRAPH - ROLLER COASTER CHRONOLOGY

Name: _____ Date: _____

GO.12.9

SAMPLE BAR GRAPH - ROLLER COASTER CHRONOLOGY

THE NUMBER OF COASTERS OPENED IN A GIVEN DECADE

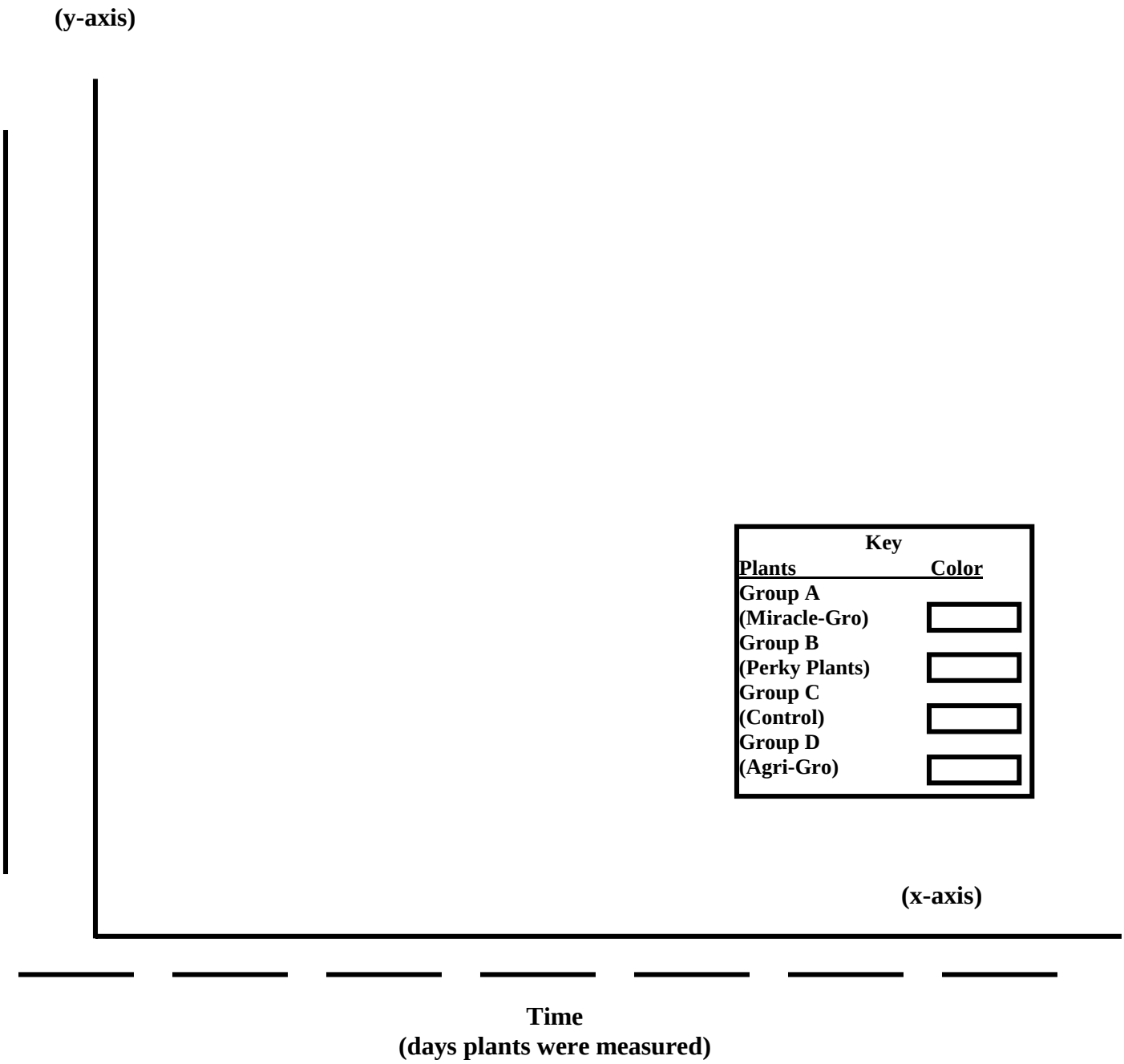


GO.12.10

MULTIPLE LINE GRAPH - RATE OF PLANT GROWTH

Name: _____ Date: _____

Plants Rate Of Growth Over A Period Of 30 Days



GO.12.11

EXAMINE THE DATA – RATE OF PLANT GROWTH

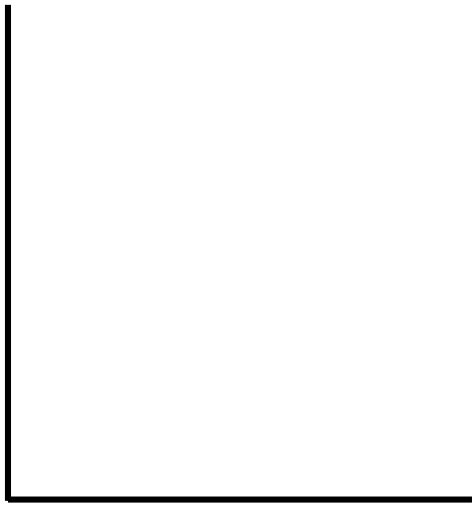
Name: _____ Date: _____

Answer the following questions to help you draw your multiple line graph.

1. (x-axis) On what days (by number) were all the plants measured? _____
_____

Are the periods of time listed above in equal intervals? Yes or No

2. (y-axis)
What is the largest growth measurement in cm? _____



What is the smallest growth measurement in cm? _____

Using this information, what will be an appropriate scale for the y-axis? _____

Fill in an appropriate scale making sure spaces in between are equal.

3. What are the types of fertilizers used? _____, _____, _____

Choose a color for each type of fertilizer. _____, _____, _____

4. Why does the control group have no fertilizer? _____
_____

Choose a color for the control group. _____

GO.12.12

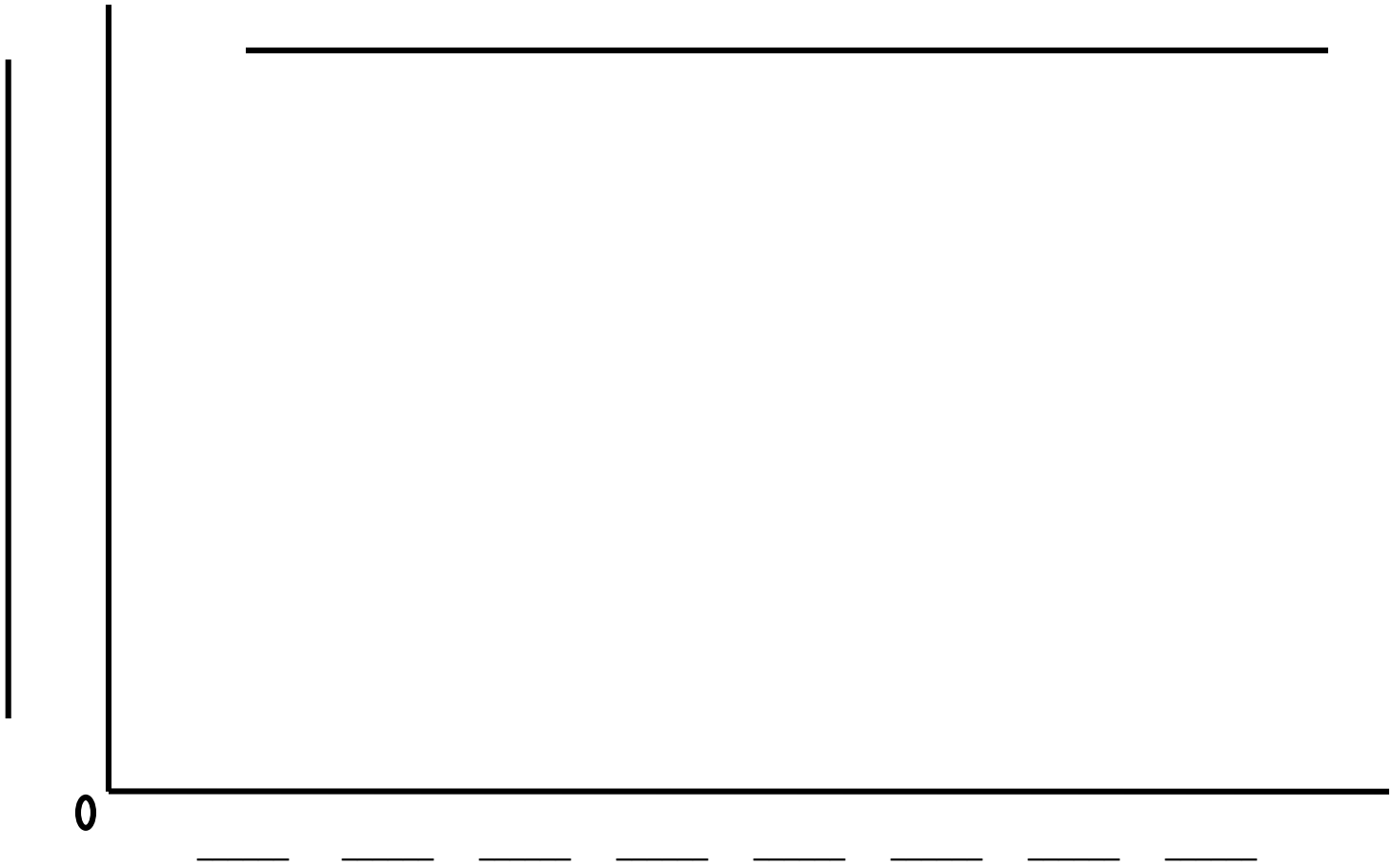
DATA – RATE OF PLANT GROWTH

Type of Fertilizer	Average Growth of Plant in Centimeters						
	Day 0	Day 5	Day 10	Day 15	Day 20	Day 25	Day 30
Miracle-Gro (Group A)	0	12	21	33	40	45	49
Perky-Plants (Group B)	0	8	16	24	32	38	42
None – Control (Group C)	0	10	18	23	31	35	38
Agri-Gro (Group D)	0	7	16	20	29	37	43

GO.12.13

BAR GRAPH – E-COMMERCE

Name: _____ Date: _____



Products Sold Over The Internet

GO.12.14

DATA COLLECTION – SURVEY FAVORITE AMUSEMENT PARK RIDE

Name: _____ Date: _____

Make two copies of this sheet for a total random sampling of 100 people.

	Person Surveyed				Favorite Ride (Please check **ONE** only)					
	Adult	Child	Male	Female	Roller Coaster	Carousel	Twister	Pirate Ship	Swings	Rotor
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
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38										
39										
40										
41										
42										
43										
44										
45										
46										
47										
48										
49										
50										
Total										

GO.12.15

ORGANIZING DATA – AMUSEMENT PARK RIDES SURVEY

Name: _____ Date: _____

Favorite Rides	Total Number of People	Convert to Percent (%)	Convert to Decimal (column three divided by 100)	Convert to Degrees (column four times 360°)
Roller Coaster		%	.	°
Carousel		%	.	°
Twister		%	.	°
Pirate Ship		%	.	°
Swings		%	.	°
Rotor		%	.	°
Should add up to ☛	100 people	100 %	1.00	360°

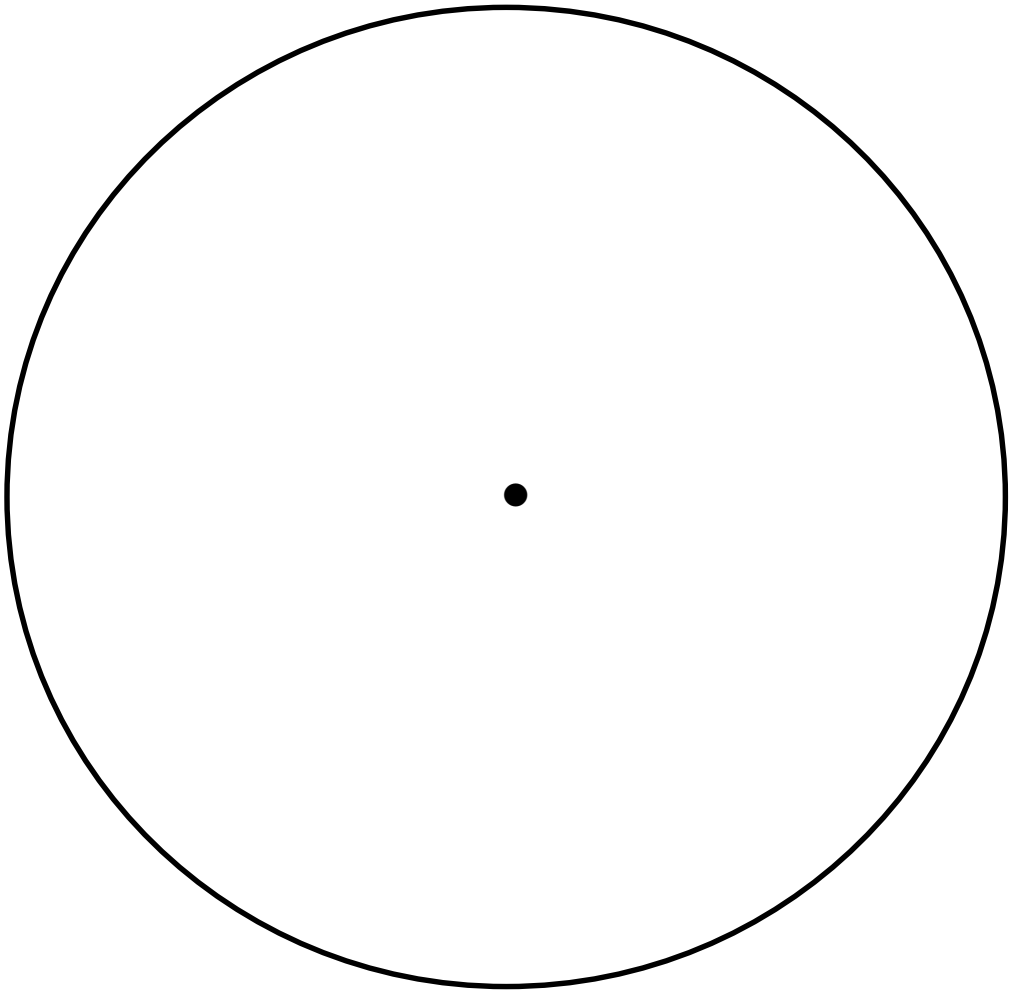
GO.12.16

PIE GRAPH – AMUSEMENT PARK RIDES SURVEY

Name: _____ Date: _____

Using a protractor, draw the angle of degree for each ride (column five of your "Organizing Data" sheet.)

Title: _____



GO.12.17

DATA – E-COMMERCE

U.S. Consumer On-line Spending in 1998

Products	Amount of $$ in millions
Travel	• (1,355,000,000)
PC (hardware and software)	1085
Content	44
Entertainment	562
Clothing	316
Grocery Foods	414
Books/Other	518
Gifts/Flowers	636

http://www.nua.ie/surveys/analysis/graphs_charts/1998graphs/consumer_spending_us.html

Source: Yankee Group

GO.12.18

GATHERING INFORMATION – E-COMMERCE

Name: _____ Date: _____

Answer the following questions to help you draw your bar graph.

1. What is the smallest money amount from the data?
_____

2. What is the largest money amount from the data? _____

This is your range of data for the y-axis. Decide on an appropriate scale based on this information. Remember to start at 0.
_____

3. Why are the money amounts in the data chart not fully written out in numerical form – for example: 1355 million?
_____

4. What would be an appropriate title that states information from the x and y axes?
_____

5. Choose 8 different colors to represent each product on your bar graph.
_____ _____ _____ _____ _____ _____ _____

GO.12.19

WORKSHEET FOR STEM-AND-LEAF PLOT

Name: _____ Date: _____

In the space below, construct the stem-and-leaf plot from the information given. Use the lines on the bottom of the sheet to write the summary paragraph.

GO.12.20

WORKSHEET – BATTING AVERAGES

Name: _____ Date: _____

A batting average can be written as a fraction. It is a comparison of the number of times at-bat to the number of hits.

> **For example: Nomar Garciaparra of the Boston Red Sox in 1997 had 209 hits in 684 at-bats. This can be written as a fraction – 209/684. A fraction is another way to compare things; so when we look at this fraction we can see that there were 684 total times at bat and there were 209 hits. How many were not hits? _____**

For the baseball record books, it was easier to change this fraction into its decimal form. All fractions can be changed into decimals, but many do not come out even.

1. To change a fraction to its decimal form, just divide the top by the bottom. To change ½ into a decimal, we just divide 1 by 2. Practice this with your teacher in this space.

2. Now practice changing 1/8 into a decimal.

Batting averages must be rounded to the nearest thousandths since most do not come out even.

To find the batting average:

- **Divide a player's number of hits by the number of times at bat.**

- **Keep dividing to the ten-thousandths place and then round to the thousandths place.**

3. In the space below, solve for Nomar Garciaparra's batting average.

GO.12.21

DATA – BATTING AVERAGES

Name: _____ Date: _____

Solve for the batting averages and then chart the results.

Player	Year	At-Bats	Hits	Batting Average
Babe Ruth (New York Yankees)	1923	522	205	
Ted Williams (Boston Red Sox)	1941	456	185	
Ken Griffey Jr. (Seattle Mariners)	1991	548	179	
Cal Ripken Jr. (Baltimore Orioles)	1991	650	210	
Frank Thomas (Chicago White Sox)	1996	527	184	
Derek Jeter (New York Yankees)	1996	582	183	
Mark McGwire (Oakland A's)	1996	423	132	
Tony Gwynn (San Diego Padres)	1997	592	220	
Ivan Rodriquez (Texas Rangers)	1997	597	187	

Larry Walker (Colorado Rockies)	**1997**	**568**	**208**	
Mark McGwire (St. Louis Cardinals	**1998**			
Sammy Sosa (Chicago Cubs)	**1998**			
Bonus: Hugh Duffy (Boston Braves)	**1894**	**539**		**.438**

GO.12.22

SPREADSHEET DATA CHART - POD LENGTH VERSUS NUMBER OF SEEDS

Name: _____ Date: _____

	A	B	C	D
1	**Pod Position**	**Length of Pod in cm**	**Number of Seeds**	
2				
3				
4				
5				

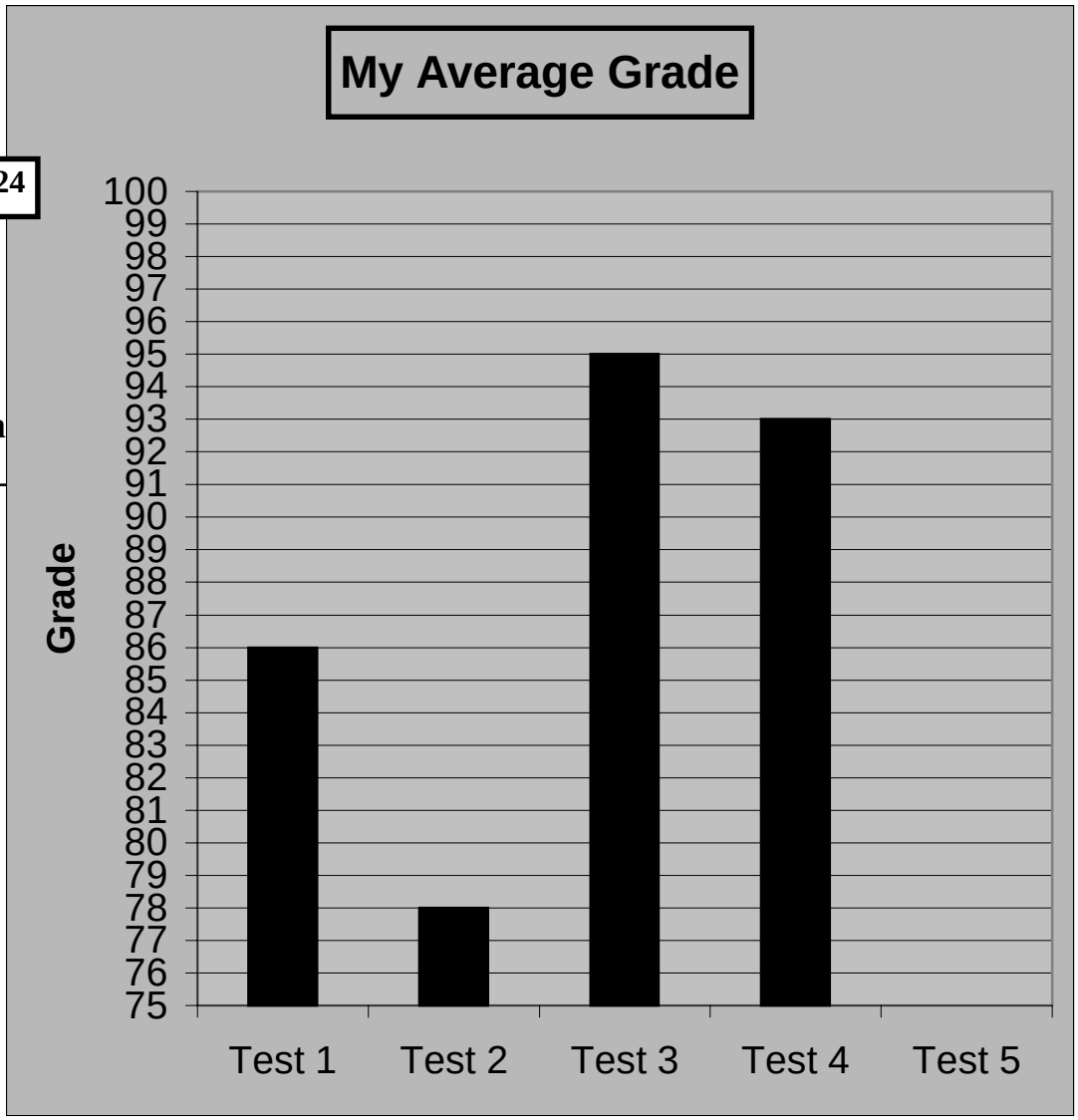
GO.12.23

BAR GRAPH – HOW AM I DOING

Name: _____ Date: _____

GO.12.24

Nam
_____



Type of Candy	Number	Fraction	Decimal	Percent	Degrees
Chocolate Candy					
Non-Chocolate Candy					
Gum					
Other					
Totals					

GO.12.25

CONVERSION TABLE FOR PIE GRAPH DATA

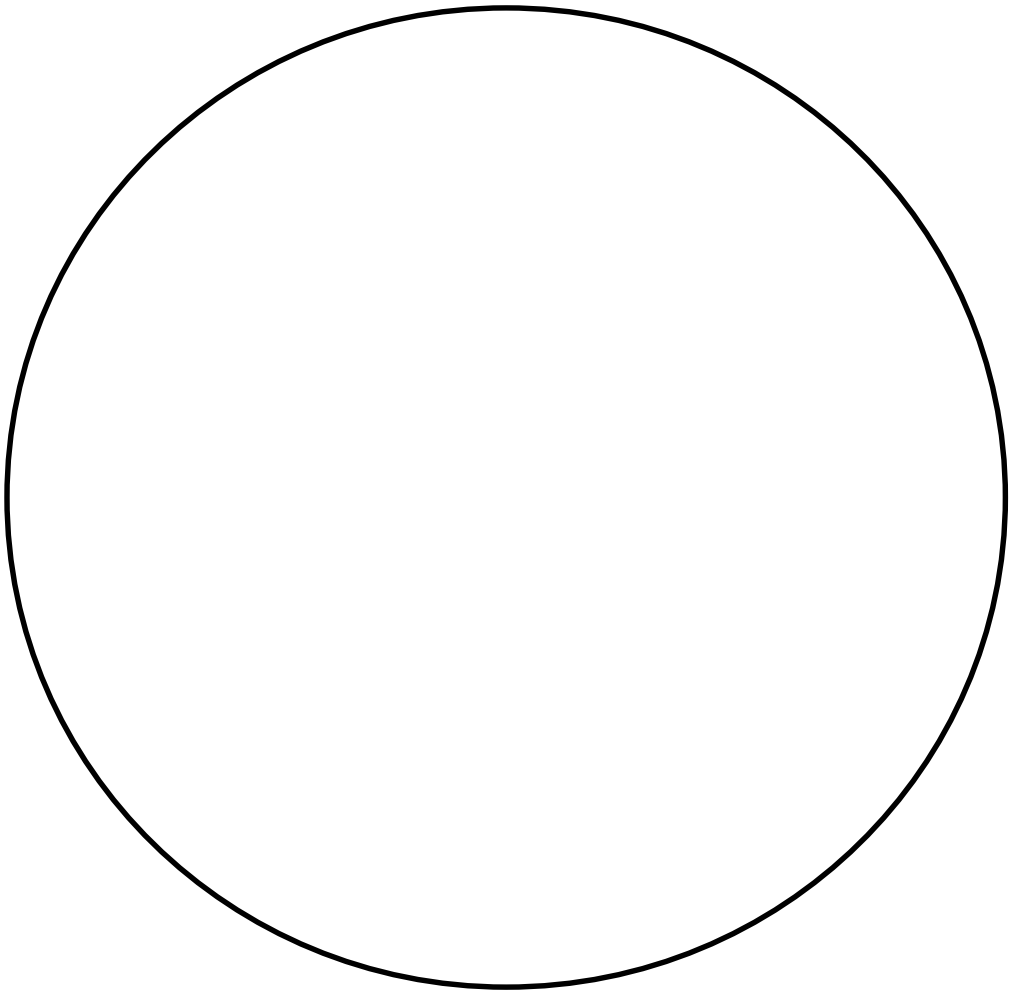
Name: _____ Date: _____

	Number	Fraction	Decimal	Percent	Degrees
Totals					

GO.12.26

PIE GRAPH TEMPLATE

Name: _____ Date: _____

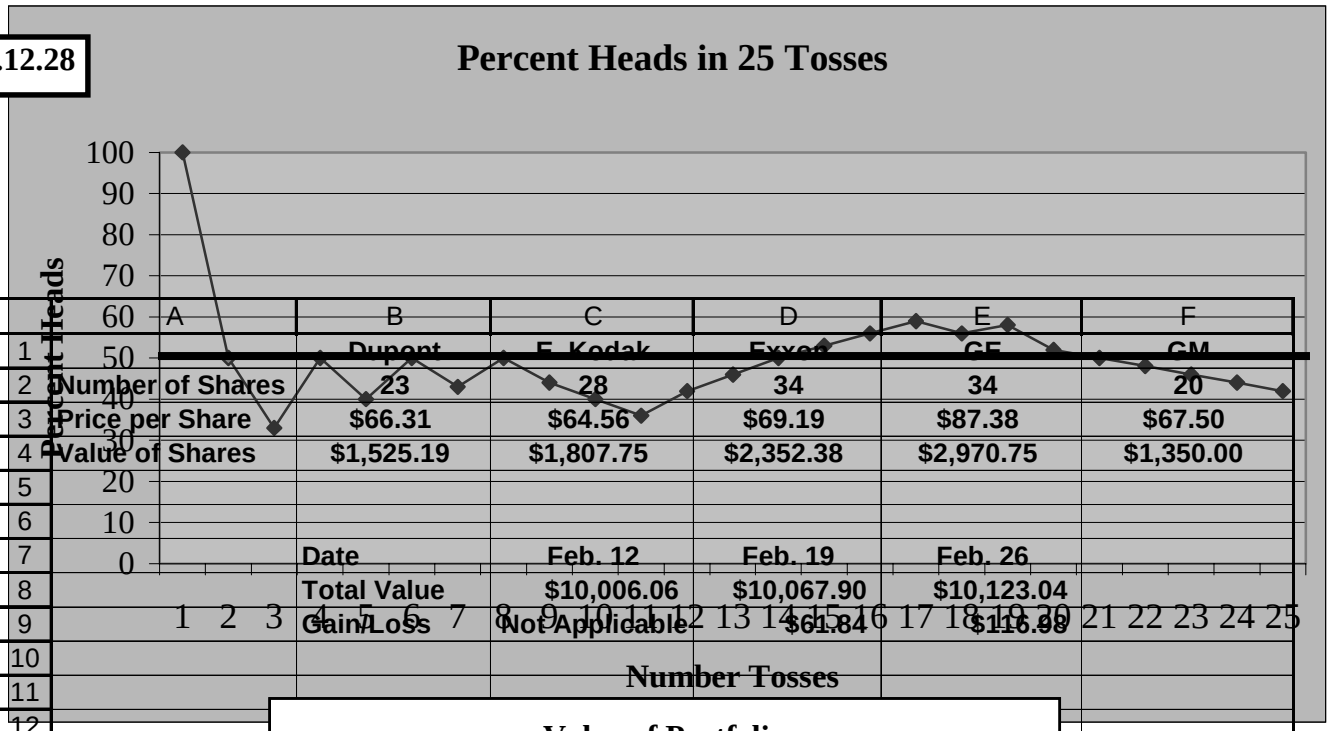


GO.12.27

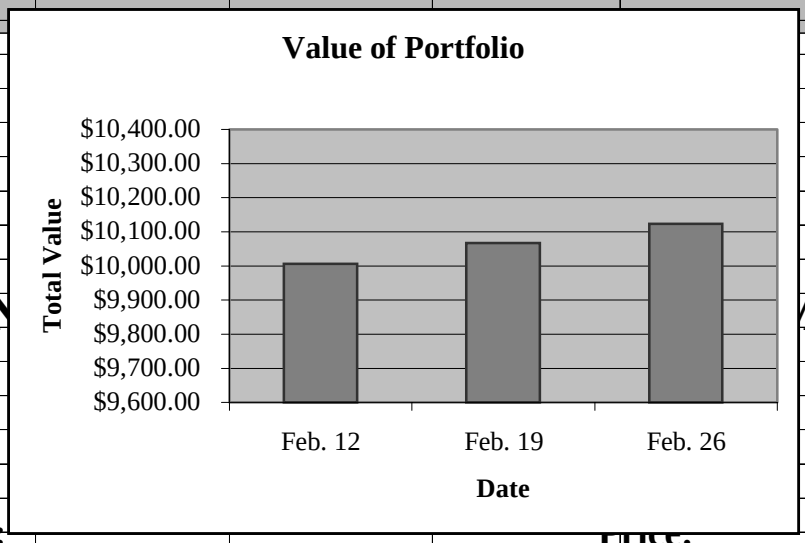
SAMPLE CHART AND GRAPH BASED ON "THE LAW OF LARGE NUMBERS"

	A	B	C	D	E	F	G	H	I	J
1	**H/T**	**H**	**T**	**T**	**H**	**T**	**H**	**T**	**H**	**T**
2	**Fraction**	**1/1**	**1/2**	**1/3**	**2/4**	**2/5**	**3/6**	**3/7**	**4/8**	**4/9**
3	**% Heads**	**100%**	**50%**	**33%**	**50%**	**40%**	**50%**	**43%**	**50%**	**44%**
4										
5	**T**	**T**	**H**	**H**	**H**	**H**	**H**	**H**	**T**	**H**

GO.12.28



	A	B	C	D	E	F
1		Dupont	E. Kodak	Exxon	GE	GM
2	Number of Shares	23	28	34	34	20
3	Price per Share	$66.31	$64.56	$69.19	$87.38	$67.50
4	Value of Shares	$1,525.19	$1,807.75	$2,352.38	$2,970.75	$1,350.00
5						
6						
7		Date	Feb. 12	Feb. 19	Feb. 26	
8		Total Value	$10,006.06	$10,067.90	$10,123.04	
9		Gain/Loss	Not Applicable	$61.84	$116.98	
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						



GO.12.29

THE WON MAN –

Walkman Name: Price:

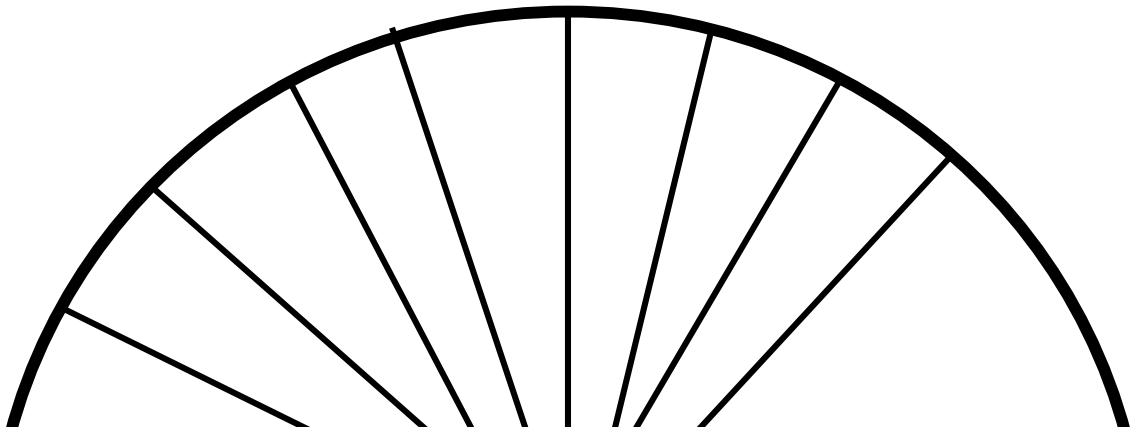
- **Sony** **$85**
- **Sony Sport** **$95**
- **Sony EXP** **$110**
- **Panasonic** **$90**

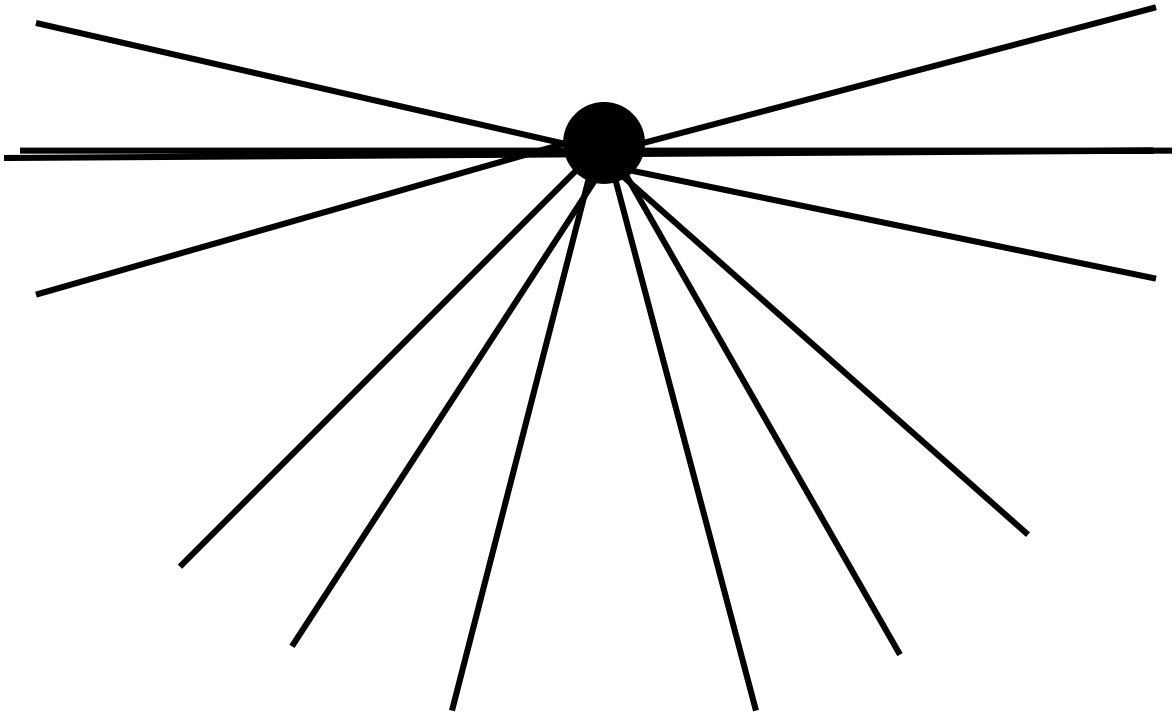
- **Panasonic with car hookup** **$105**
- **Toshiba** **$75**
- **Technics** **$75**
- **White Westinghouse** **$50**
- **JVC** **$60**
- **Hitachi** **$65**
- **Pioneer** **$115**
- **Pioneer XTC** **$125**
- **Sanyo** **$60**
- **Sanyo Shock Proof** **$70**
- **Aiwa** **$90**
- **Aiwa Deluxe** **$95**

GO.12.30

TOPIC: _____

Name:_____Date:_____





GO.12.31

BRASSICA GROWTH CHART

Name:_____Date:_____

Use your ruler and measure your plants from the soil to the top of the plant. Plant 1 will be your tallest plant. Plant 2 will be your shortest plant. Once you choose your 2 plants you will continue to measure those same plants and write your findings in the chart.

Brassica Growth Chart

	Plant #1	**Plant #2**
Day 4		
Day 7		

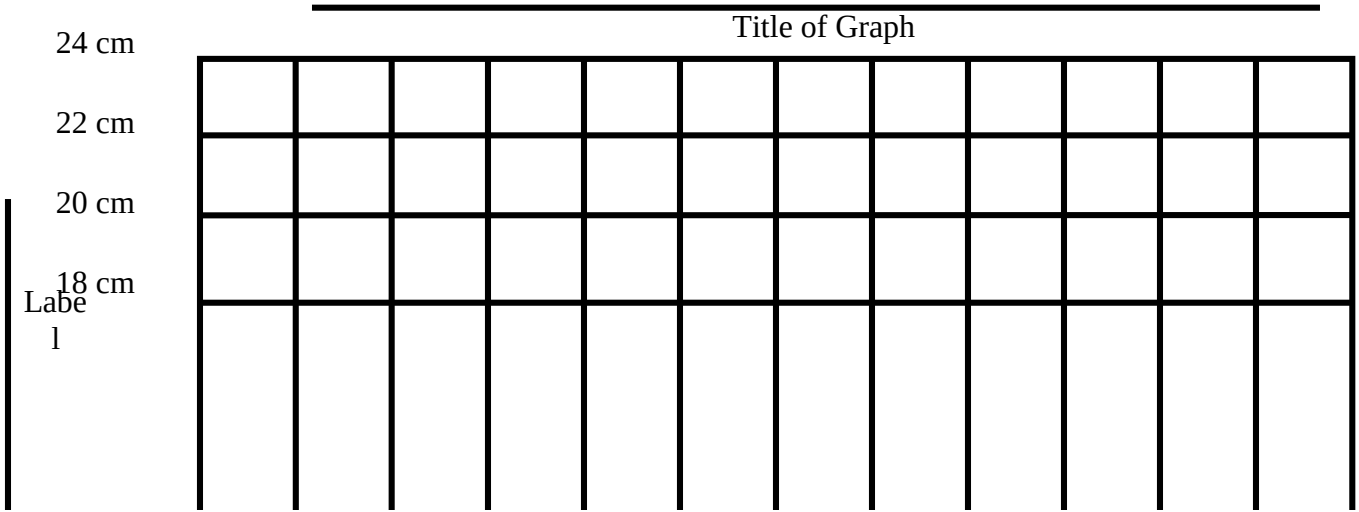
Day 8		
Day 9		
Day 10		
Day 11		
Day 14		
Day 15		
Day 16		
Day 17		
Day 18		
Day 21		

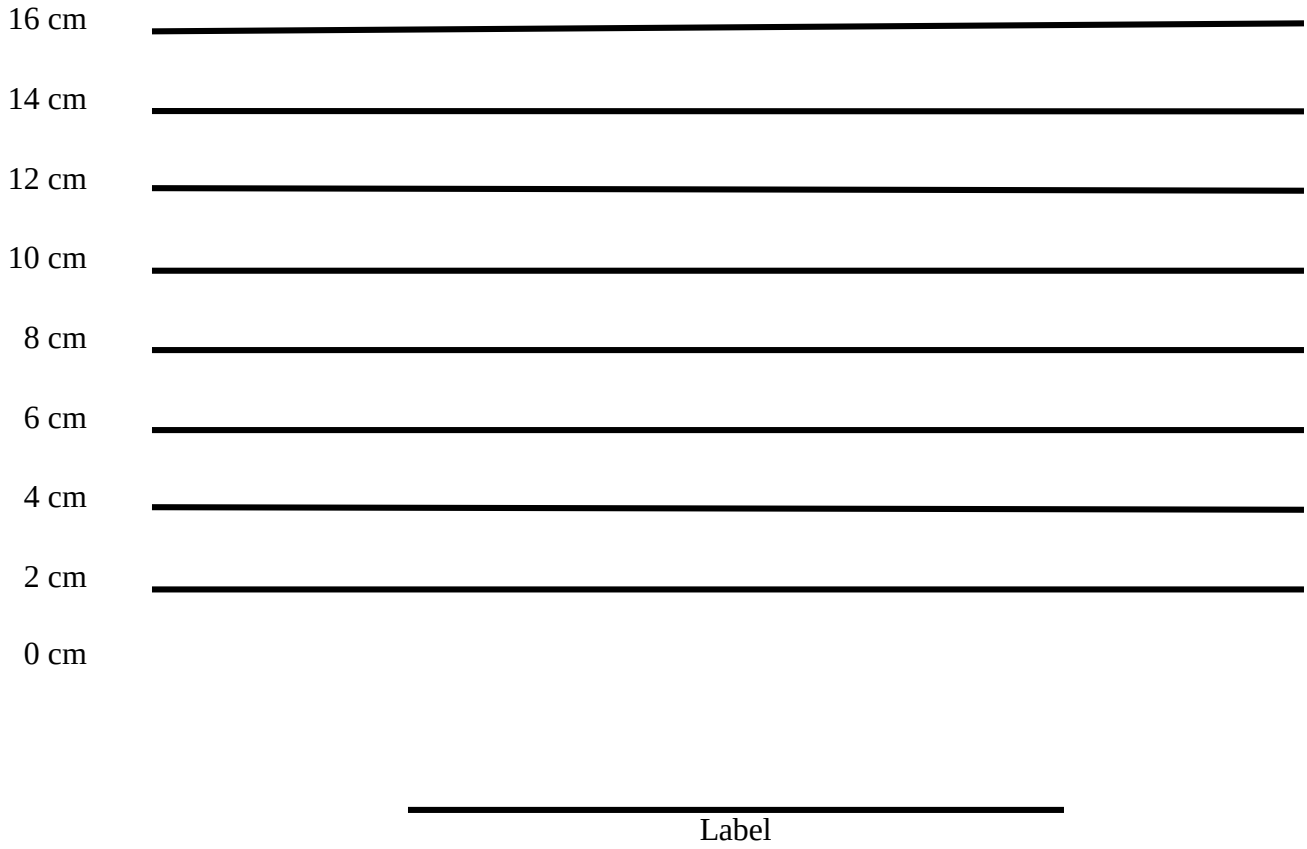
Na GO.12.32 _____ **Date:** _____

Tallest Plant

Shortest Plant

Title of Graph



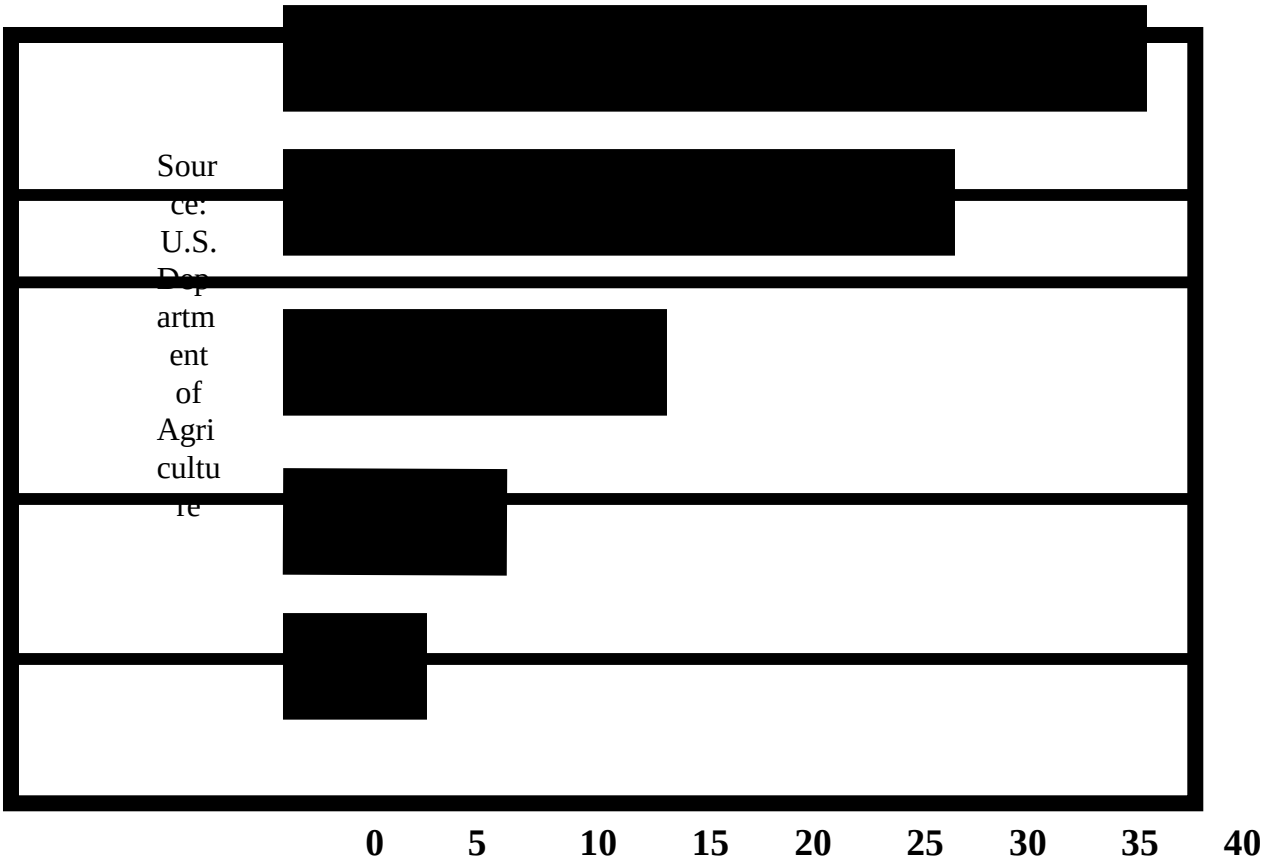


GO.12.33

Name: _____ **Date:** _____

WHAT GRAPH IS THIS?

Title



GO.12.34