

## GRADE 11 ESSENTIAL UNIT D - STATISTICS LINE GRAPHS AND PIE CHARTS

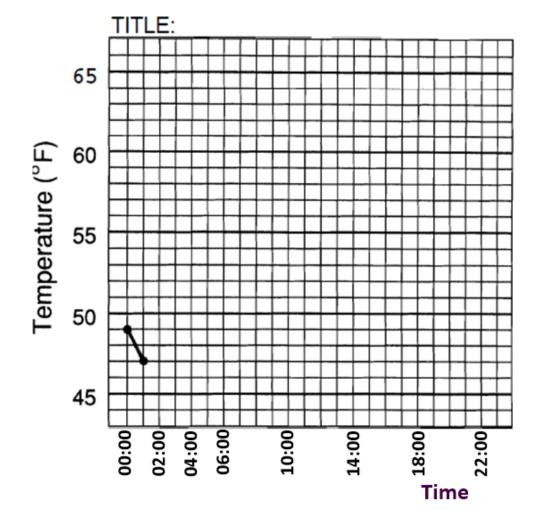
Name:	
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Line Graph Fun. A line graph displays information of data as 'markers' connected by straight line segments. The dependent (observed) data on the vertical axis is a **function** of the independent (controlled data) along the horizontal axis.

 Use the data below to make a line graph showing the temperature each hour for a day.

Hourly Temperatures					
A.M.	P.M.				
12:00 49°F	12:00 61°F				
1.00 47	1:00 62				
<b>2:00</b> 46	<b>2:00</b> 63				
<b>3:00</b> 46	<b>3:00</b> 65				
<b>4:00</b> 45	<b>4:00</b> 65				
<b>5:00</b> 46	<b>5:00</b> 64				
<b>6:00</b> 48	<b>6:00</b> 60				
7:00 51	7:00 58				
8:00 53	<b>8:00</b> 56				
9:00 54	9:00 52				
10:00 57	10:00 <u>5</u> 1				
11:00 59	<b>11:00</b> 48				



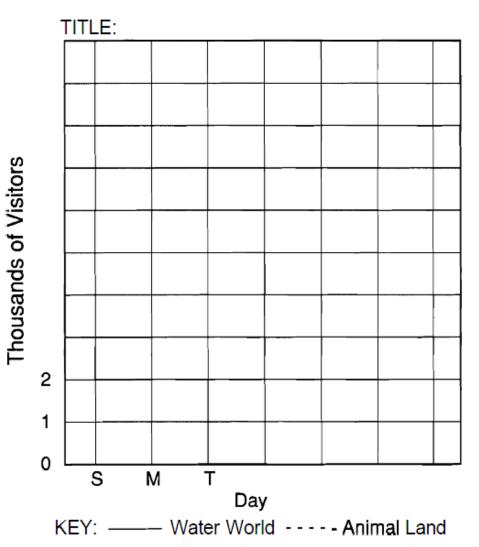
MPS

2. Use the data below to make a double-line graph showing the number of visitors at two amusement parks each day for a week.

Begin by completing the horizontal and vertical scales.

Daily Attendance					
Day	Water	Animal			
	World	Land			
Sun	7,967	5,140			
Mon	3,512	1,864			
Tues	3,833	1,328			
Wed	4,760	2,465			
Thurs	4,184	5,730			
Fri	5,675	3,291			
Sat	9,326	4,622			

Follow the Key (Legend) for the type of line to use for each series of the graph





**Circle Graphs (or Pie Charts).** Show the amount of each data category as a sector of a circle. There are 360° of angle measured from the centre to go around a circle. Sectors can be shaded different colours or different patterns to be really elegant and convincing! Really easy to do on your device.

## What Do You Call a Person Who Buys and Sells Bugs?



Find the measure of each central angle (rounded to the nearest degree). Write the letter for each answer in the box containing the answer at the bottom of the page. Construct a circle graph for each set of data.

Favorite Kind of Pie (results of a survey)

			-		
Kind			% of total	Cen ang	
Apple			30%	(C)	
Che	Cherry			(A)	
Lem	Lemon meringue			(E)	
Othe	er		33%	(R)	
72°	97°	101°	58°	29°	148

				%			entral	] [	
	Land Use			tot	al	a	angle		
	Forests			18	%	(I)			
	Mountains			27	%	(N	)	]	
	Campgrounds			5	%	(A)		7 F	
	Grasslands			41	%	<b>(</b> T)	)	]	
	Lakes/Streams			9	9% (E)		] [		
61	62° 11° 65° 1		10	)8°	0	)°	16°	104°	
04	2	11	05		0	90	,		104

Land Use in a National Park

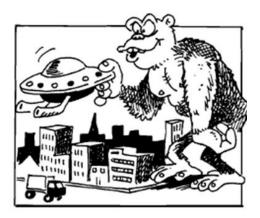
Advertising Budget

			% of		Central		
Medium			total		angle		
Newspapers			2	25%	(K)		
Magazines			2	20%	(A)		
Television				29%	(D)		
Radio			8%		(N)		
Direct mail			15% (		(L)		
Outdoor					(T)		
76°	18°	54°	>	32°	119°		
					200503		



## Why Did King Kong Play with the Flying Saucer?

Complete each table. (Round each answer to the nearest whole number, if necessary.) Write the letter for each answer in the circle at the bottom of the page that contains the answer. Construct a circle graph for each set of data.



## Instruments in the Arithmics Rock Band Family of Number of Percent Central of total Instruments Players angle (T) 126 ° <u>(H) 35%</u> Brass 7 Woodwind 4 (E) (G) (O) 5 Strings (A) (S) (E) Percussion 3 (T) (I) Keyboard 1 360° TOTAL 20 100% 35/100 . 360 - 26 = 0.35 = 35% 7/0

