

Rules For Graphing**Name:** _____**Period:** _____**Rules of Graphing**

- Identify dependant (y-axis) and independent (x-axis) variables** (“Y depends on X”)
 - the dependant variable is the variable you are measuring
 - the independent variable is the variable you are testing - or the one that you are changing
- Establish/calculate a **scale** for each axis
 - what is the range for the data?
 - how accurate do you need to be?
 - what are my graph paper limitations (if any)?
- Bar or Line Graph?**

Type of Data	Type of graph
Continuous Data	Line Graph
Discontinuous Data	Bar Graph

- Label** the x-axis and y-axis (designate **units** in parenthesis)
- Title** the graph: **The Effect of Independent Variable on Dependent Variable** (*same as data tables!)

Practice Examples: graph the following data sets on the back of this sheet. Make sure to follow all of the rules of graphing.

- The Effect of Oil Amount on # Kernels Popped** (*hint: graph I.V. vs. Mean*)

round to nearest whole number

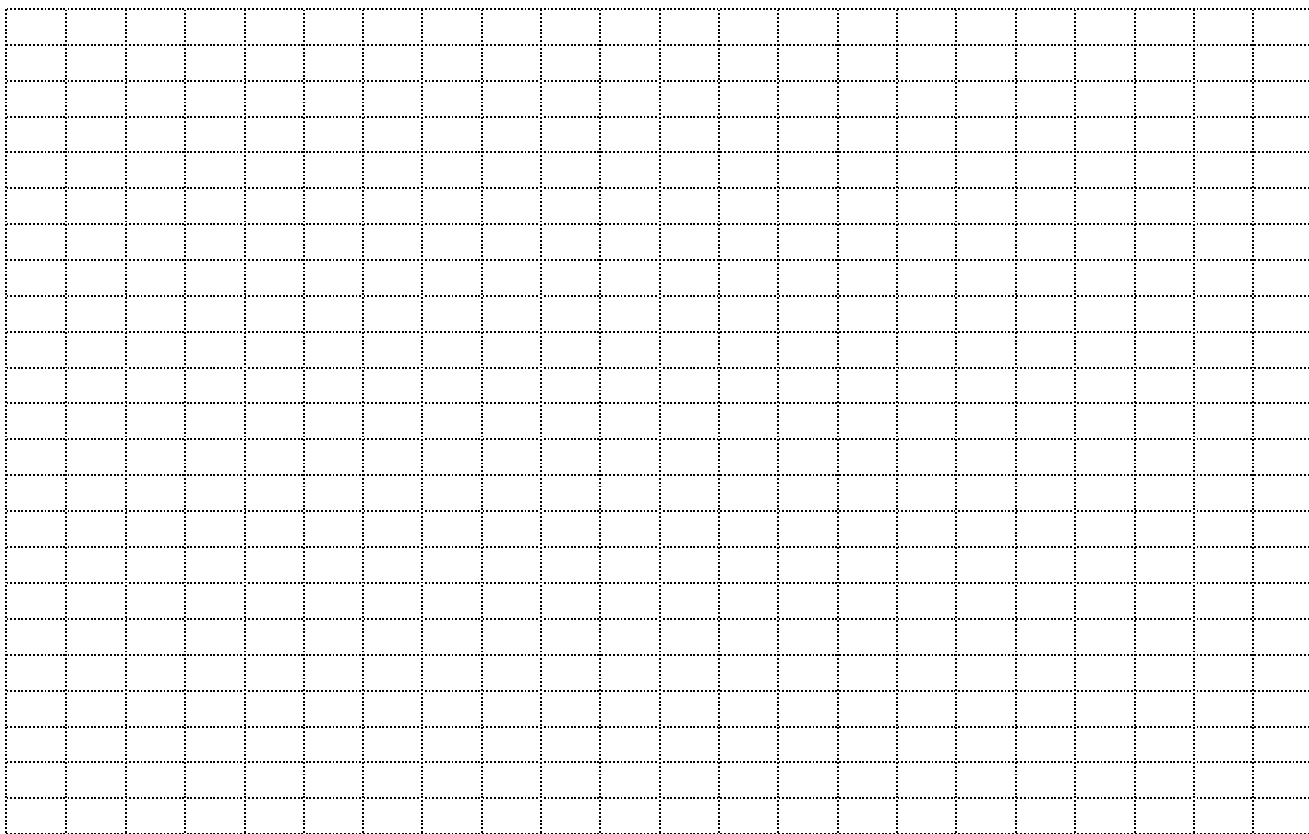
Amount of Oil (ml)	# of Kernels					Mean # of kernels
	<i>Trials</i>					
	1	2	3	4	5	
5	46	43	46	51	50	
10	43	41	42	42	42	
20	33	35	37	33	34	
30	10	9	8	10	11	

- The Effect of Type of Insulation on Temperature**

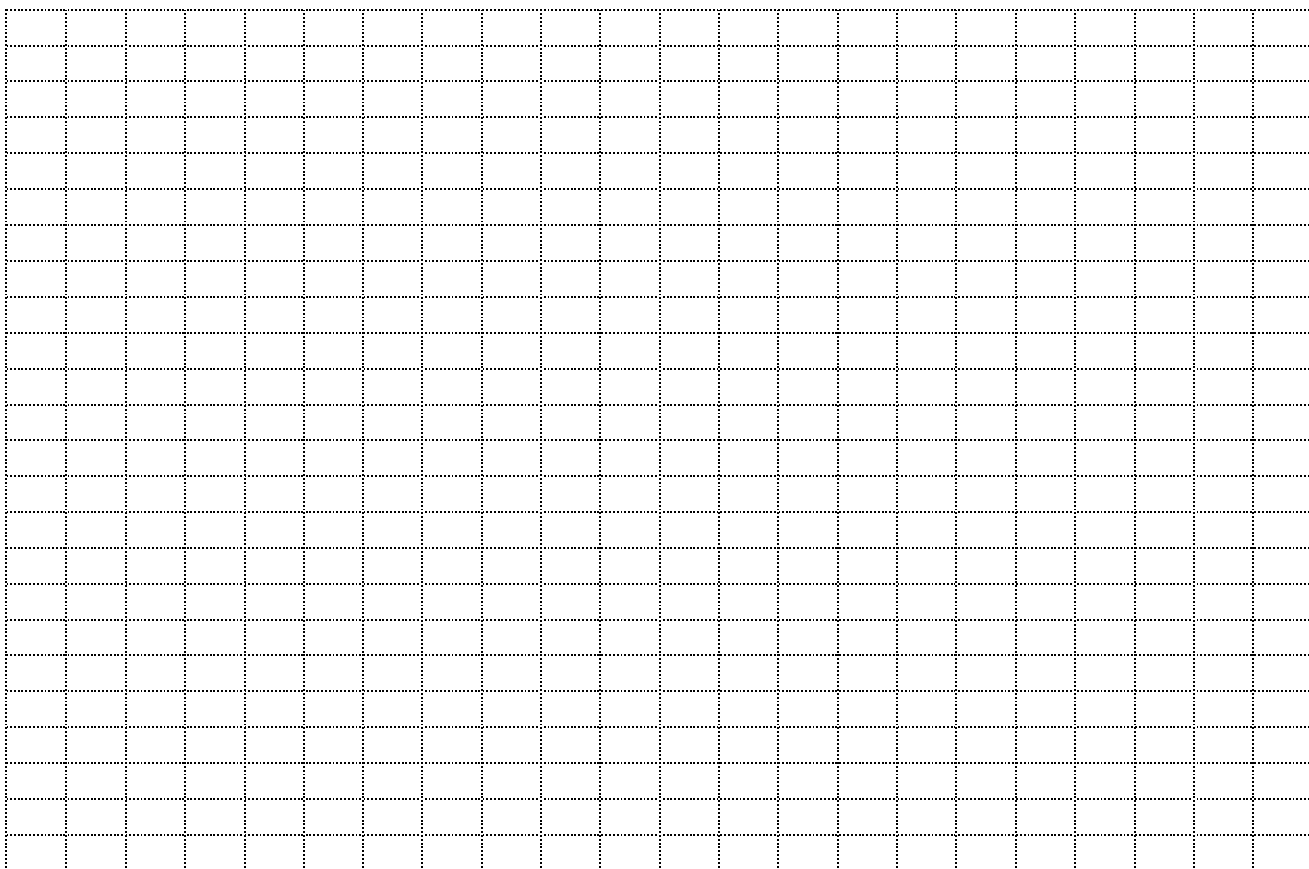
round to nearest whole number

Type of Insulation	Temperature (F)					Mean Temperature (F)
	<i>Trials</i>					
	1	2	3	4	5	
Type A	80	85	81	86	87	
Type B	73	75	76	75	76	
Type C	84	85	89	86	85	
Type D	69	68	67	67	68	

1.



2.



3. The Effect of Wax Brand on Snowboard Speed (time)

Wax Brand (I.V.)	Time to Run 500 Meter Course (sec)										Mean Time
	Trial # 1	#2	#3	#4	#5	#6	#7	#8	#9	#10	
A	56	62	58	57	55	59	61	60	68	59	
B	61	61	63	65	61	63	68	65	59	58	
C	54	53	52	55	56	57	58	54	53	52	
D	58	59	57	58	56	58	58	57	58	58	
No Wax (control)	78	79	78	79	83	85	85	82	83		

