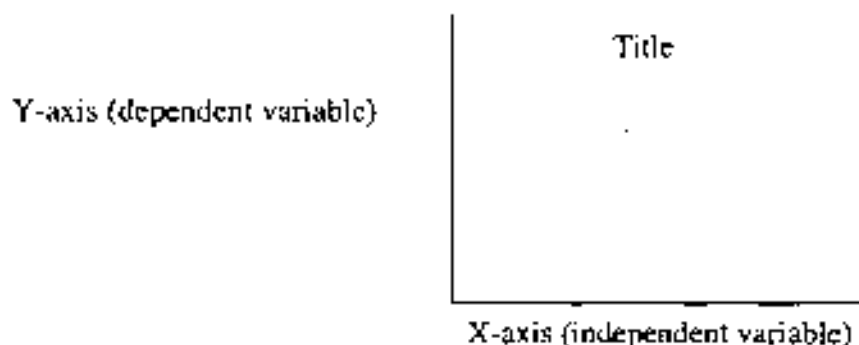
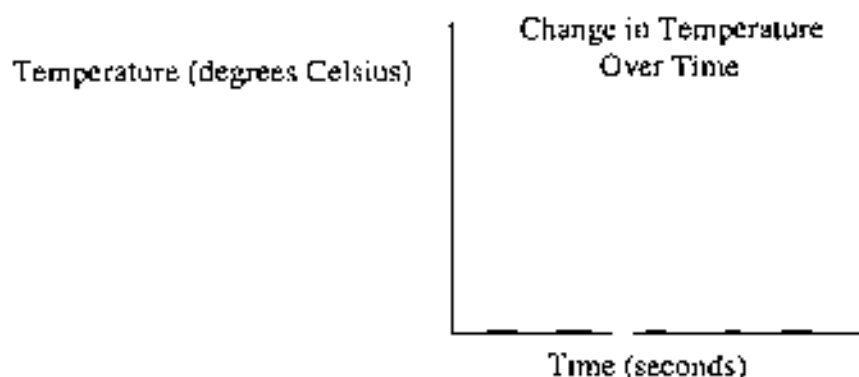


Properties of a Good Graph

1. Always give your graph a title. The title should explain to the reader what the points on the graph represent.
2. The x-axis (horizontal) of a graph is always your Independent variable and the y-axis (vertical) is the dependent variable.



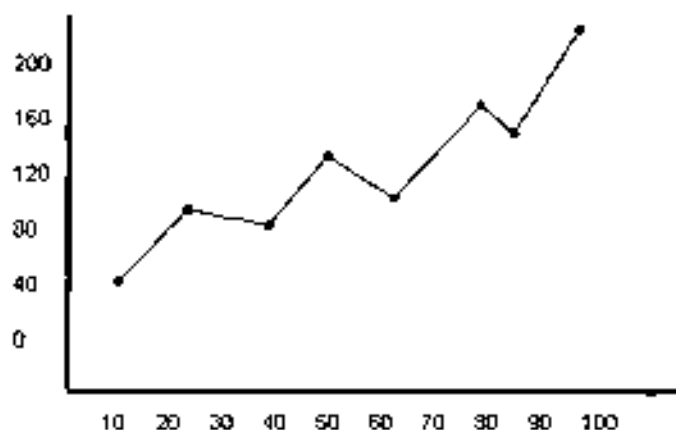
3. Both axes should be labeled so the reader can see exactly what is plotted. This includes variable with units in parenthesis.



4. The scale numbers should be uniform so each box on the graph has the same value. The scale should cover as much of the page as possible.



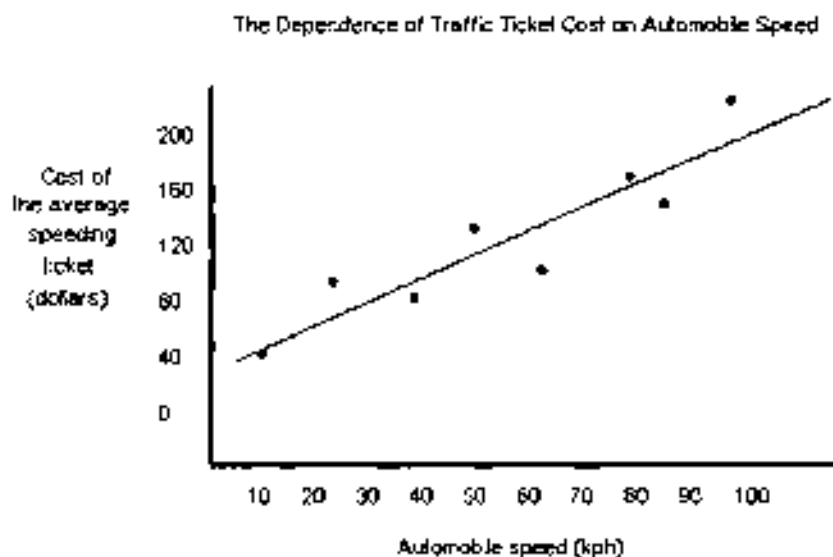
A Bad Graph



Let's see what's wrong with this graph:

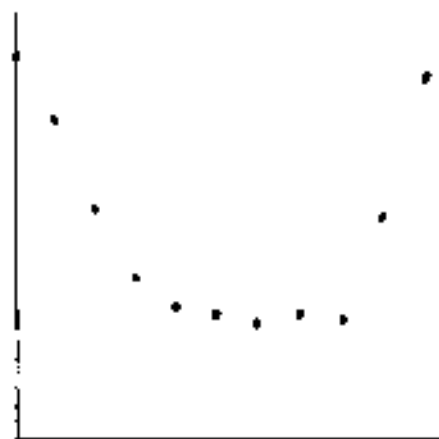
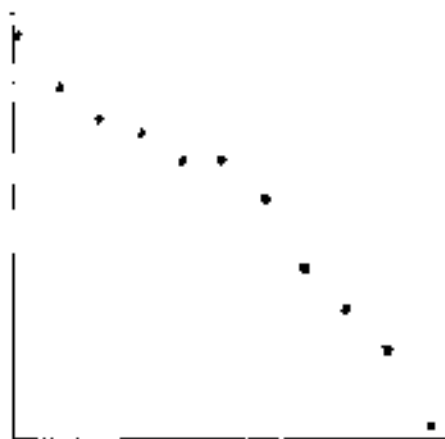
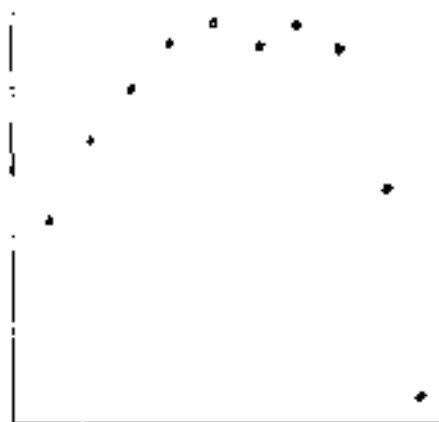
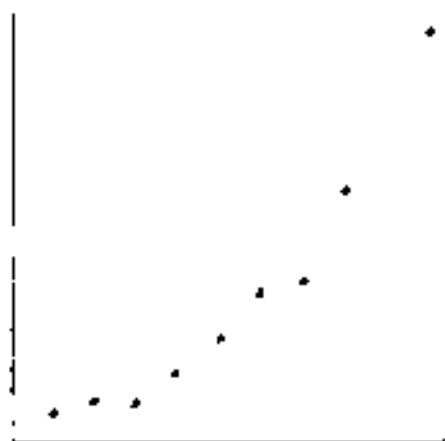
- There's no title. What is it a graph of?
- There are no labels on the x or y-axis. What do those numbers represent?
- There are no units on the x or y-axis.
- Somebody played "connect the dots". This should be a curve that follows most of the dots.

A Good Graph!



BRAIN STRETCHER 5

DIRECTIONS: Practice making a smooth curve on the following graph.



They See Me Rollin'

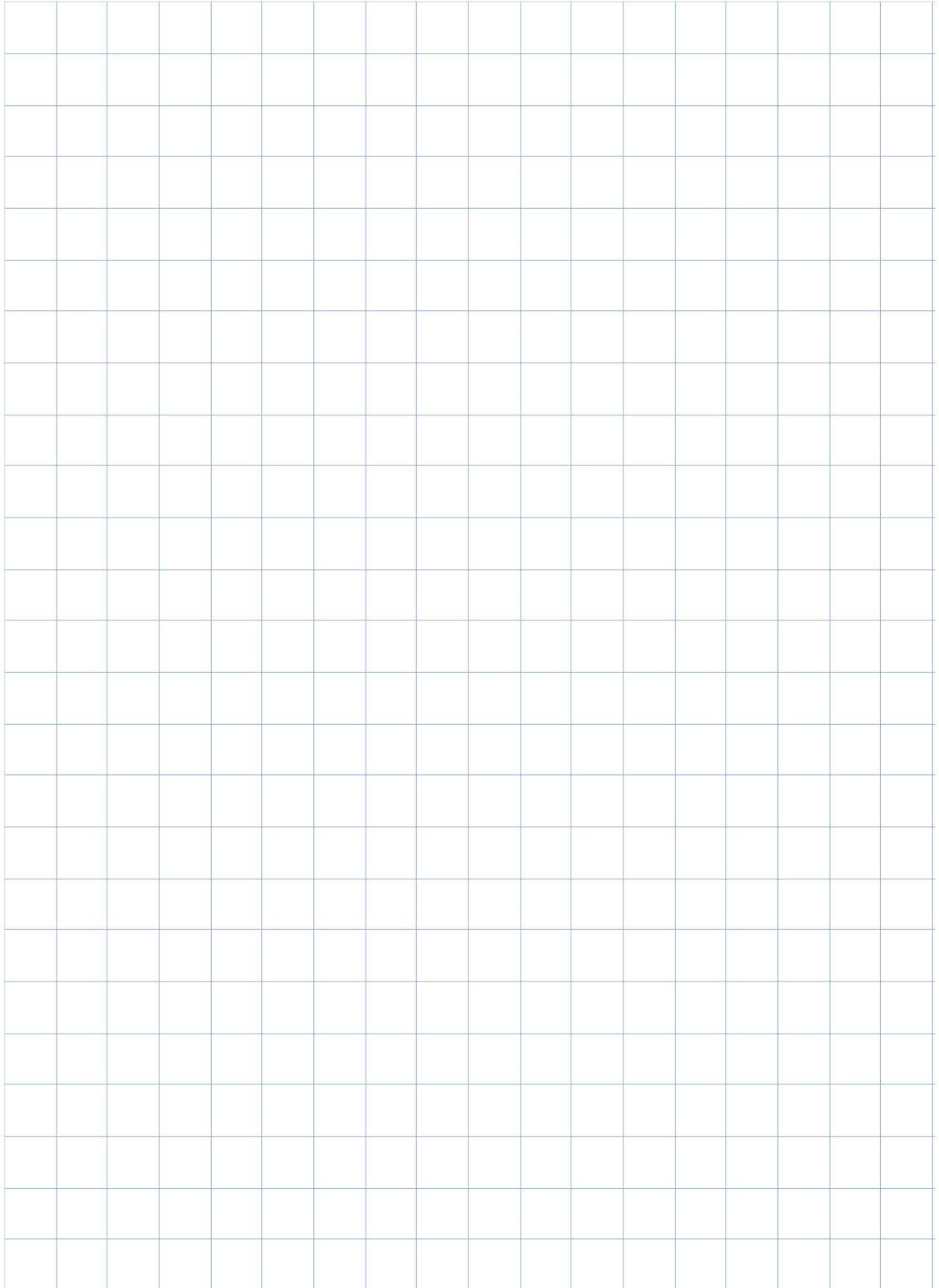
Over the last three summers you have been working as many hours as possible to save up enough money to buy a new car for your 16th birthday. Your birthday is a few days away and your new 2006 Mustang GT is sitting on your drive way, yet you would like to pimp it out before you ride in it on your birthday. As you all know one of the best ways to "Pimp Your Ride" is to buy a PHAT set of Rims (The bigger and shinier the better). Below is a price list of two different types of rims from a local merchant's newspaper advertisement. Make a line graph of the data below to help you decide which size rim you can afford.



Size of Rim (inches)	Price per American Racing Chrome Rim (Dollars)	Price per SSC Performance Rim (Dollars)
15	99	101
16	113	123
17	167	176
18	190	200
20	250	263
21	280	295
22	320	326
24	425	437

If you wanted to purchase 19" rims for your new Mustang how much money would you need to buy the 19" American Racing Chrome Rims? How about the 19" SSC Performance Rims? (Hint: Remember the above prices are the amount for 1 rim, therefore you would need 4 rims for your car) Explain how you found your answer.

If you had \$1500 to spend on a new set of rims, but bought a \$130 radar detector, and had your windows tinted for \$325 what is the biggest size American Racing Chrome rim you could buy for your Mustang? What is the biggest SSC Performance rim you could buy? (Hint: Remember the above prices are the amount for 1 rim, therefore you would need 4 rims for your car). Explain how you found your answer.

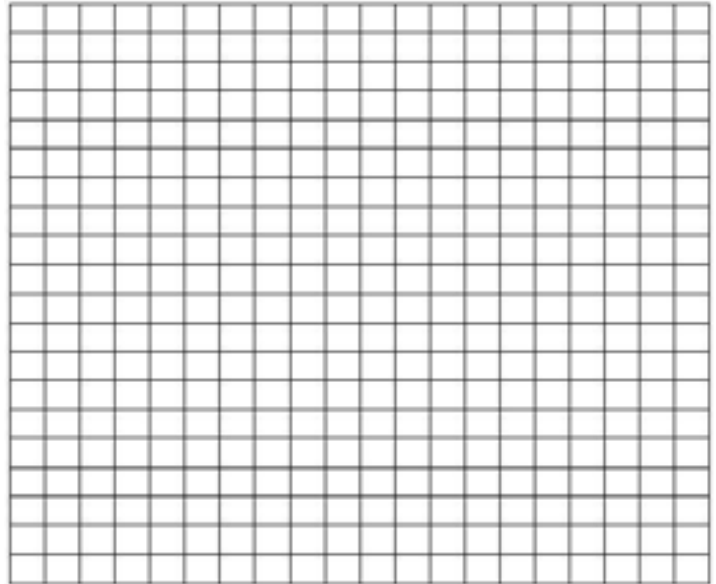


Graph Worksheet
Graphing & Intro to Science

Name: _____

A. Graph the following information in a **BAR graph**. Label and number the x and y-axis appropriately.

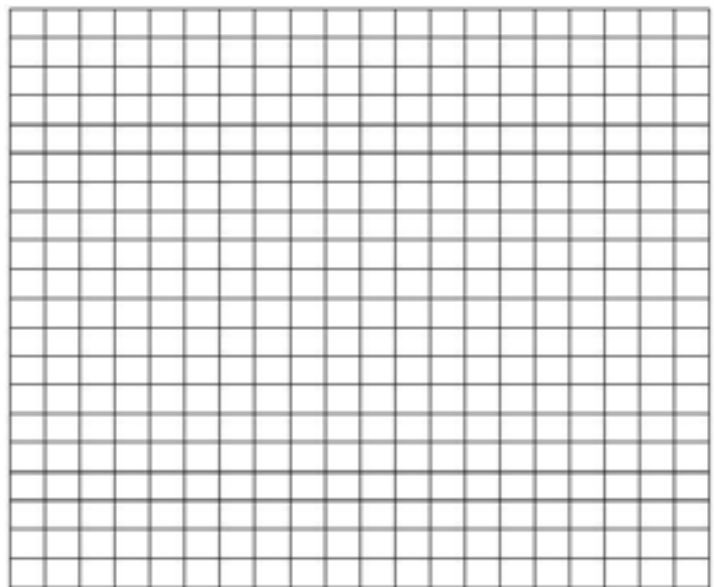
Month	# of deer
Sept	38
Oct	32
Nov	26
Dec	20
Jan	15
Feb	12



1. What is the independent variable? _____
2. What is the dependent variable? _____
3. What is an appropriate title? _____
4. What is the average number of deer per month? _____

B. Graph the following information in a **LINE graph**. Label and number the x and y-axis appropriately.

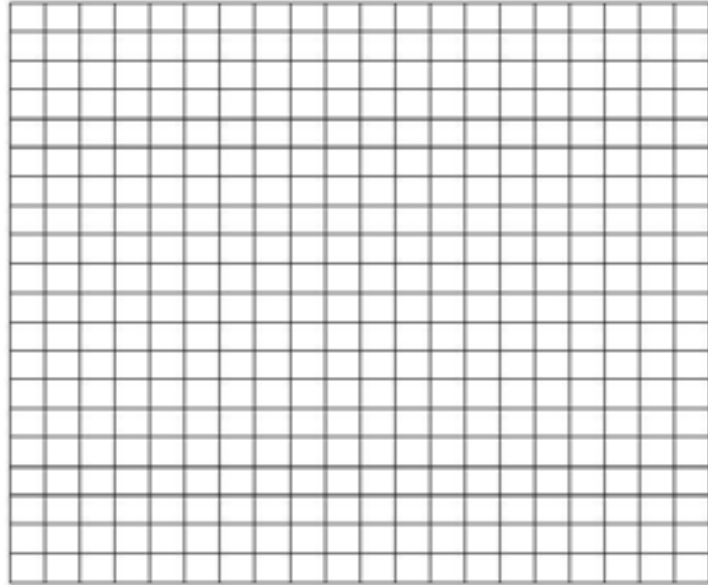
# of Days	# of Bacteria
1	4
2	16
3	40
4	80
5	100
6	200



1. What is the independent variable? _____
2. What is the dependent variable? _____
3. What is an appropriate title? _____

C. Graph the following information in a **BAR graph**. Label and number the x and y-axis appropriately.

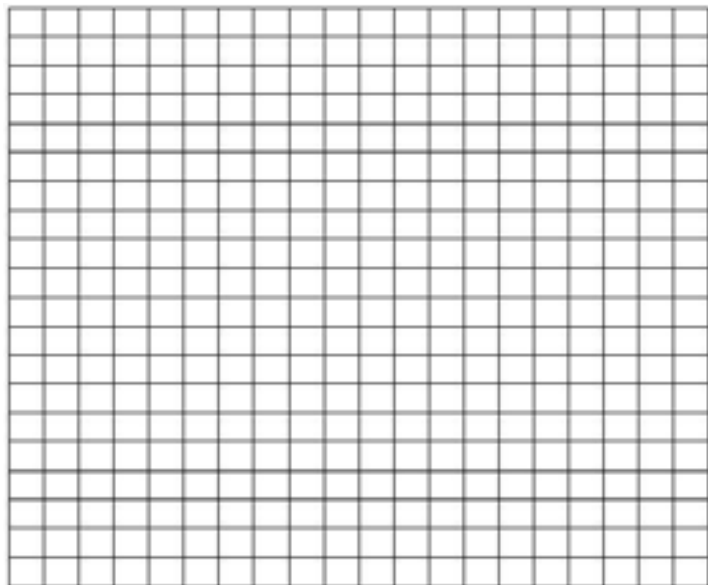
# of Hours of Study	Grade
0	20
2	60
4	70
6	80
8	90
10	100



1. What is the independent variable? _____
2. What is the dependent variable? _____
3. What is an appropriate title? _____
4. What was the average grade earned? _____

D. Graph the following information in a **LINE graph**. Label and number the x and y-axis appropriately.

Temperature	Enzyme Activity
0	0
20	10
30	15
40	20
50	8
60	5
70	0



1. What is the independent variable? _____
2. What is the dependent variable? _____
3. What is an appropriate title? _____