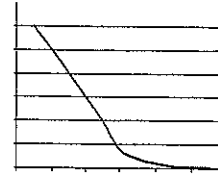
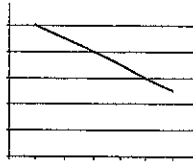
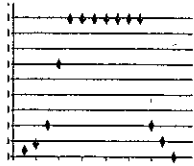
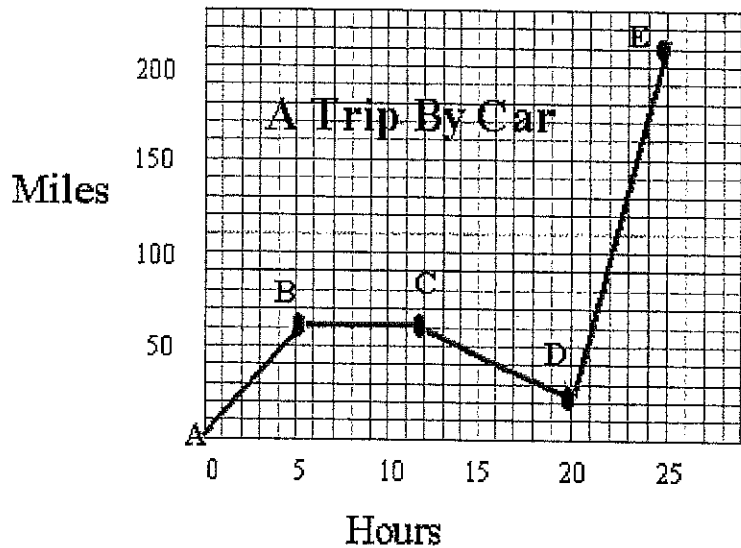


## Statistics Test Review

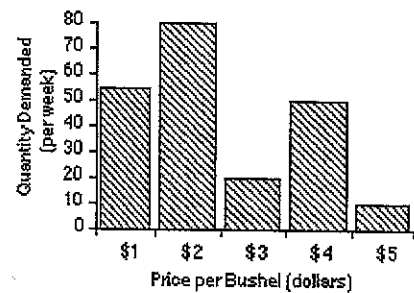
- State whether the following data is continuous or discrete. Explain why.
  - Your speed as you approach a red light.
  - Number of people in a movie theatre before, during and after a movie.
  - The height of an airplane as it lands.
- Match each of the following graphs with one of the situations from question 1. Write the letter (a, b or c) in the blank beside the graph.



- Answer these questions about the graph on the right:
  - How many total miles did the car travel?
  - Describe the motion of the car between hours 5 and 12?
  - How many miles were traveled in the first 5 hours of the trip?
  - Which line represents the fastest speed?



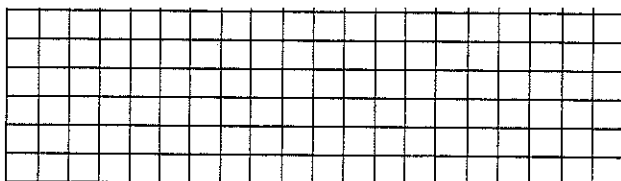
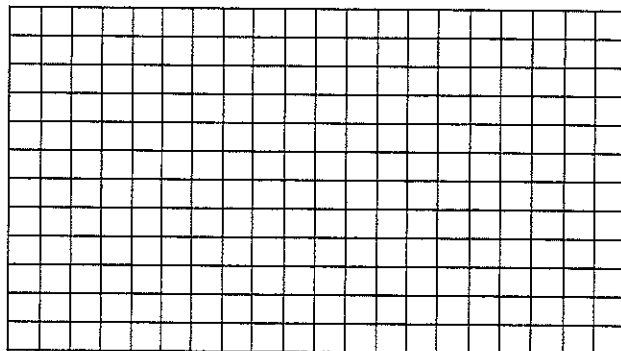
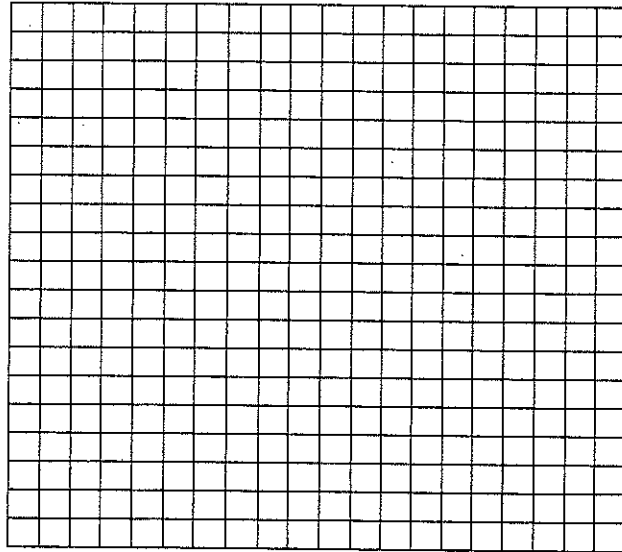
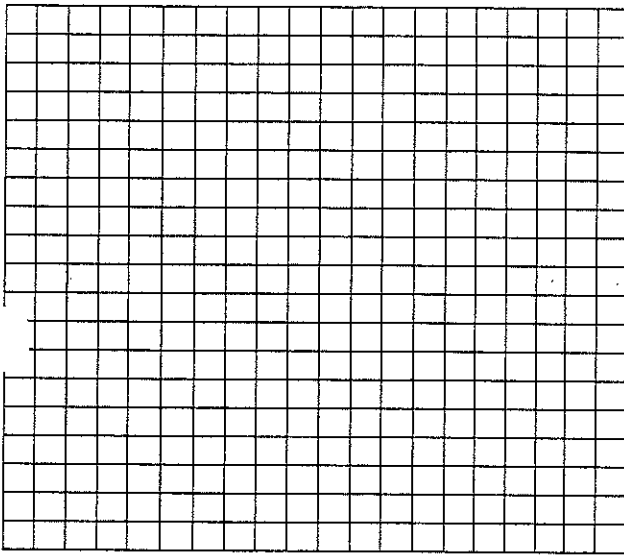
- Answer these questions about the graph at the right:
  - What is the dependent variable on this graph?
  - Does the price per bushel always increase with demand?
  - What is the demand when the price is \$5 per bushel?



5. Use the data chart below to complete the following questions

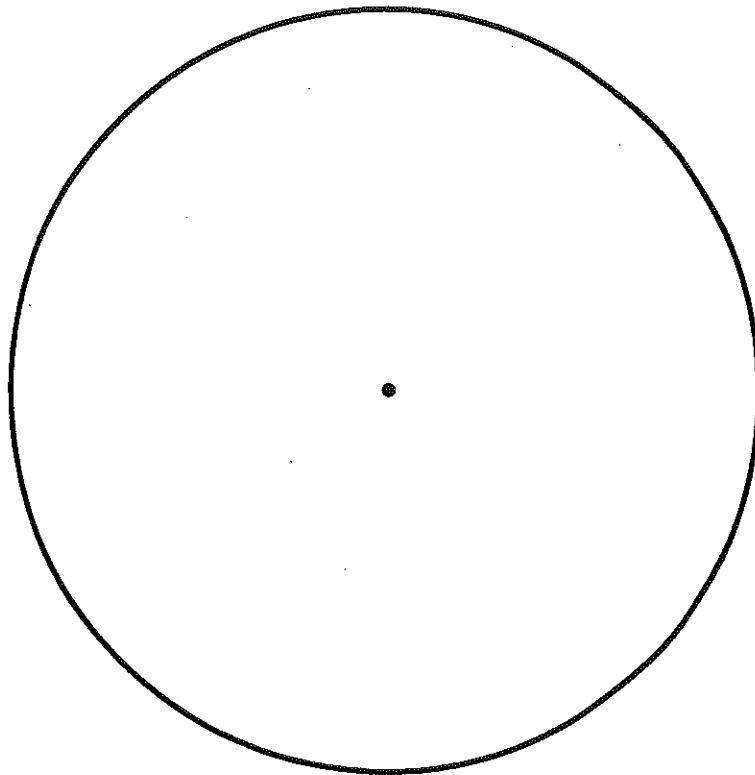
Year	Number of Car's Stolen in Winnipeg
1999	1010
2000	1150
2001	1250
2002	1375
2003	1425

- a. Construct an unbiased graph
- b. Construct a bar that makes the difference in the numbers look larger. (Hint: where would you start your scale?)
- c. Construct a bar graph that makes the differences in the numbers look smaller.



6. A company wants a pie chart of its salaries. Fill in the chart and create the pie chart the company wants.

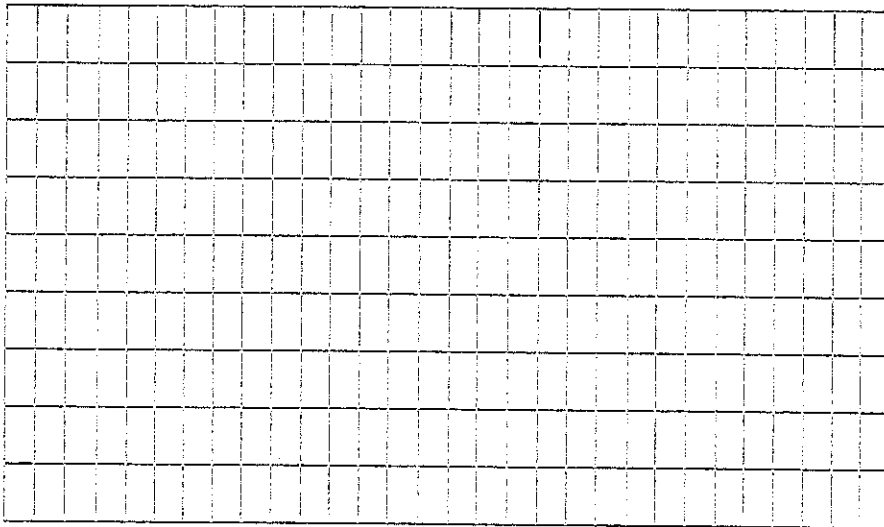
Job	Salaries	Salaries as Percent	Sector angle in degrees (round)
Manager	100 000		
Plant Head	75 000		
Welder	45 000		
Metal Cutter	40 000		
Assembler	35 000		
Total			



7. Richard Simmons doesn't like to eat food with a lot of fat. He charted the total fat in food versus the amount of calories he would intake. Use the data to answer the following questions.

Total Fat	Total Calories
9	260
13	320
21	420
30	530
31	560
25	500
28	560
20	440
5	250

- a) Graph the results. (make sure the dependent axis goes from 0 to 900 and the independent axis goes from 0 to 60).



- b) Draw a line of best fit  
c) What would the total calories be if the total fat was 18?  
d) If there were 800 calories what would the fat content be?



