Elementary Statistics	Name:
Study Guide 4	Class:
Due Date:	Score:

No Work \Leftrightarrow No Points

Use Pencil Only \Leftrightarrow Be Neat & Organized

1. Forty workers were randomly surveyed about how long it takes them to travel to work each day. The data below are given in minutes:

34	35	42	52	65	20	60	49	38	37	23	24	35	59	62	48	52
41	45	28	47	50	47	58	30	32	48	40	45	59	55	50	47	40
30	28	45	56	62	50											

(a) (4 points) Find the range and the midrange of this data.

(a) _____

(b) (2 points) Find the class width if we wish to construct a frequency distribution table with 5 classes starting with the minimum value of the data set.

(b) _____

(c) (8 points) Complete the frequency distribution table below starting with the minimum value of the data set:

Class	Class	Cumulative	Relative	Percentage
Midpoint	Frequency	Frequency	Frequency	Frequency

(d) (5 points) Draw the relative histogram by using class midpoints and relative frequencies. Clearly label and mark your graph.

(e) (5 points) Draw the ogive. Clearly label and mark your graph.

(f) (5 points) Draw the frequency polygon. Clearly label and mark your graph.

(g) (5 points) Draw the stem plot. Key: 5|3 = 53, 10|0 = 100

$\mathbf{Stem}(\mathbf{tens})$	Leaf(units)



2. The grade distribution for a statistic class is displayed in the bar chart below:

- (a) (2 points) How many students received a grade in this class?
 - (a) _____
- (b) (2 points) What percentage of students received B grade in this class?

(b) _____

(c) (4 points) Construct pie chart for grade distribution in this class. Clearly mark and label your graph.





3. The grade distribution for a class of 80 students is displayed in the pie chart below:

(a) (2 points) How many students received B grade in this class?

(a) _____(b) (2 points) What percentage of students received at least C grade in this class?

(b) _____

(c) (4 points) Construct the bar graph for grade distribution in this class. Clearly mark and label your graph.