Elementary Statistics	Name:
Study Guide 3	Class:
Due Date:	Score:

Your solutions must be consistent with class notes & resources.

Be Neat, Organized, and No Work ⇔ No Points

---

1. **Consider a sample with range of** 48, **find the class width**

   (a) **(2 points)** **if we wish to have a frequency distribution table with** 4 **classes.**

   (a) _____

   (b) **(2 points)** **if we wish to have a frequency distribution table with** 5 **classes.**

   (b) _____

   (c) **(2 points)** **if we wish to have a frequency distribution table with** 6 **classes.**

   (c) _____

2. **The incomplete frequency distribution table given below represents the score of an exam in a math class.**

   (a) **(5 points) Complete the frequency distribution table below:**

Class Limits	Class Boundaries	Class Midpoint	Class Frequency	Cumulative Frequency	Percentage Frequency
55 — 67			4		
68 — 80			9		
81 — 93			16		
94 — 106			11		

(b) **(1 point)** Find the number of classes in this frequency distribution table.

(b) _____

(c) **(2 points)** Find the class width for this frequency distribution table.

(c) _____

(d) **(2 points)** How many students took this exam?

(d) _____

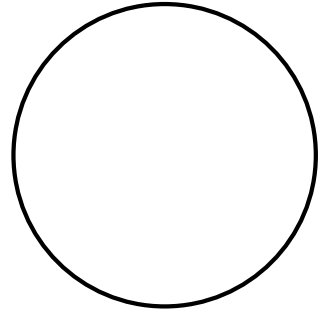(e) **(2 points)** what percentage of the scores are between 68 and 93, inclusive?

(e) _____

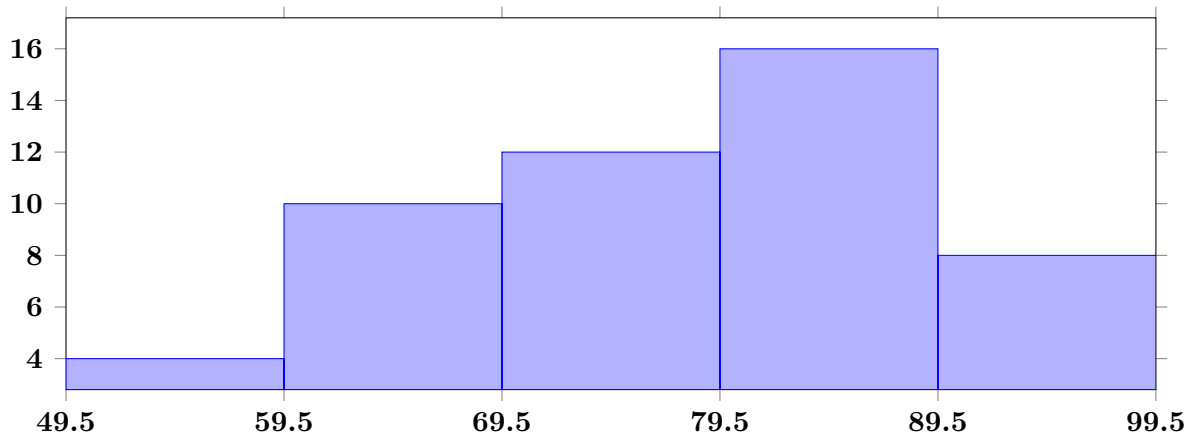(f) **(3 points)** Draw the histogram. Clearly label and mark your graph.

(g) **(3 points)** Draw the ogive. Clearly label and mark your graph.

(h) **(3 points)** Draw the frequency polygon. Clearly label and mark your graph.

(i) **(3 points)** Draw the pie chart. Clearly label and mark your graph.

3. Consider the graph below:

(a) **(2 points)** What is the class width for this graph?

(a) _____

(b) **(6 points)** Complete the frequency distribution table below.

Class Limits	Class Boundaries	Class Midpoint	Class Frequency	Cumulative Frequency	Percentage Frequency

Study Guide 3 Total Points: 50

(c) **(3 points)** Draw the ogive. Clearly label and mark your graph.

(d) **(3 points)** Draw the frequency polygon. Clearly label and mark your graph.

(e) **(3 points)** Draw the pie chart. Clearly label and mark your graph.
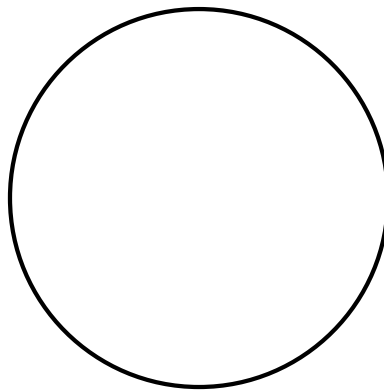
(f) **(3 points)** What percentage of this data fall within 59.5 and 89.5 ? **Round to the nearest whole percent.**

(f) _____

Success is the sum of small efforts, repeated consistently.