

**LESSON  
10.4****Challenge Practice***For use with the lesson "Interpret Stem-and-Leaf Plots and Histograms"*

**In Exercises 1–4, use the following stem-and-leaf plot which shows the average exam score for each student in an algebra class.**

Stem	Leaves
6	5 6 9 9
7	0 1 1 3 4 8
8	0 3 5 5 6 7 8
9	1 2 3 4 4 7 8
10	0

**Key:**  $6|5 = 65$

1. What is the probability a randomly selected student has an average exam score of at least 70?
2. What is the probability a randomly selected student has an average exam score less than 100?
3. What is the probability a randomly selected student has an average exam score between 80 and 95 inclusive?
4. What is the probability a randomly selected student has an average exam score of 94?

**In Exercises 5 and 6, use the following frequency table.**

Interval	Frequency
0–9	I
10–19	II
20–29	III
30–39	II
40–49	I

5. Construct a stem-and-leaf plot that could represent the given frequency table and have the smallest possible mean. State the mean of the data.
6. Construct a stem-and-leaf plot that could represent the given frequency table and have the largest possible mean. State the mean of the data.