Stem-and-Leaf Plots
Skill 5 - 9C

Answers to test questions 9C. Directions: Complete the stem and leaf plot using the data in the table.

Karen's Test Scores
73,   89,   73,   90,
85,   92,   70,   87

Test Scores

Stem	Leaves
7	0 3 3
8	5 7 9
9	0 2

Key: 7|0 = 70

Step 1	Step 2	Step 3
Put the data from the table in order from least to greatest. 70 73 73 85 87 89 90 92 For 70, 73, 73, put 7 in the stem column. Look at the stem and leaf plot above.	Write the ones digits from the data in the leaf column to the right of its tens digit. Continue until all the data are plotted. 70 **Stem Leaf** 7 | 0	Write the title along the top of the plot. Write the key at the base of the plot or at the bottom right side.

1. The first problems here are reading stem and leaf plots and the last problem is making a stem and leaf plot. Answer the following questions.

Test Scores

Stem	Leaves
6	4 5 6
7	5 5
8	0 2 5 7
9	2 4

Key: 6|4 = 64

a. What is the lowest test score?

b. How many test scores are shown in the plot?

c. What is the median of the test scores?

d. What is the range of the data?

2.

Test Scores

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

Key: 5|0 = 50

a. What is the mode of the test scores?

b. What is the median of the test scores?

c. What is the range of the data?

d. What is the highest score?

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3. Use the data in the stem and leaf plot to answer the questions.

Daily Pie Sales	
Stem	Leaves
0	7 8
1	2 5 5 5 6 6
2	4 5
3	0 2 4

Key: 2│4 = 24

a. What is the mode?

b. What is the least number of pies sold in a day?

c. What is the median for the data?

d. What is the range of the data?

4.

Test Scores	
Stem	Leaves
5	0 2
6	5 6 6
8	2 3 3 4
9	0 1 2 3

Key: 5│0 = 50

a. How many students scored at least 83 points?

b. What is the median of the test scores?

c. What is the range of the data?

d. What is the highest score?

5.

Football Throw Competition (yards)	
Stem	Leaves
0	8 9
1	0 0 5
2	0 1 3 9
3	0 2 3

Key: 0│9 = 9

a. How many people threw less than 10 yards?

b. How many people threw 20 yards or more?

c. How many people threw 10 yards or more?

d. How many people threw more than 20 yards?

6.

Game Scores	
Stem	Leaves
0	5 5 5
1	0 0 2
2	1 3
3	5

Key: 3│5 = 35

a. What is the range of the data?

b. What is the median of the test scores?

c. What is the mode of the test scores?

d. What is the mean of the data?

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7. Make a stem and leaf plot.

The data below are test scores for a science final exam. Use the data below to make a stem and leaf plot.

83, 75, 52, 90, 56, 63, 80, 72, 55, 80, 91, 63

First, put the data in order from least to greatest. Mark through each number above as you use it to keep track.

Make a stem and leaf plot below using the data. You can refer to the instructions on page one if you need to.

Draw a stem and leaf plot in the space below.

Answer the questions about your stem and leaf plot.

a. How many students received a score greater than 70?

b. How many students received a score of 63 or less?

c. What is the median for the data?

Answers: Grade 5: Skill 9C
1. a. 64 b. 11 c. 80 d.30   2. a. 86 b. 81 c. 46 d.96   3. a. 15 b. 7 c. 16 d.27

4. a. 7 b. 83 c. 43 d.93   5. a. 2 b. 7 c. 10 d.6   6. a. 30 b. 10 c. 5 d. 126 ÷ 9 = 14

Make a stem and leaf plot.

The data below are test scores for a science final exam. Use the data below to make a stem and leaf plot.

83, 75, 52, 90, 56, 63, 80, 72, 55, 80, 91, 63

Step 1. Put the data in order from least to greatest.

52, 55, 56, 63, 63,72, 75, 80, 80, 83, 90, 91

Step 2. Draw the stem and leaf plot.

Stem	Leaves

Step 3. Start with the first number in the data which is 52. Put the tens digit which is 5 in the stem column and the ones digit which is 2 in the leaves column.

Stem	Leaves
5	2

Step 4. The next number is 55. Since you have the stem which is 5 in the plot, write the leaf which is 5 (from the ones place.)

Stem	Leaves
5	2 5

Step 5. Continue until you have plotted all of the data. Add the title and the key.

Science Final Exam

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

Key: 5|2 = 52

a. How many students received a score greater than 70? Answer:7

b. How many students received a score of 63 or less? Answer : 5

c. What is the median for the data? Answer: The set of data has 2 middle numbers so add the 2 numbers and divide by 2.   72 + 75 = 147   147 ÷ 2 = 73.5