

DATA & GRAPHING

TEKS Unit Bundle

4.9A
4.9B

STEM-AND-LEAF Plots

A stem-and-leaf plot _____

Use the data below to create a stem-and-leaf plot.

MATH FACT TEST SCORES
MAX SCORE: 50

50, 48, 49, 50, 37, 50, 46, 45, 49, 38, 41
50, 50, 50, 42, 50, 28, 41

First, list the numbers from least to greatest:

Complete the frequency table below. Use the information from the bottom of the page to help.

MATH FACT TEST SCORES

Stem	Leaves
2	
3	
4	
5	

key 2|8 = 28

Circle the leaf that shows the lowest test score.
What is the number that is represented by that leaf? _____

Circle the leaf that shows the highest test score.
What is the number that is represented by that leaf? _____

What can you count on the stem-and-leaf plot to tell you how many scores are represented?

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11-13 DATA & GRAPHS

The distance members of a baseball team could throw a ball was measured in feet. The distances were recorded in the stem and leaf plot.

Stem	Leaf
9	8 9
10	0 0 0 3 3
11	0 5

9|9 means 99



11 Which _____ on _____

A. 1
B. 9

12 What is the difference between the shortest and farthest distance _____



13 What is the difference between the two farthest distances _____

A. 197
B. 225
C. 203
D. 199

4th
GRADE

The Practice Your Students Need

11

Which data set is represented on the dot plot?



12

What is the difference between the longest and shortest...

15

What is the difference between the number of pets adopted in the...

16

The number of pets adopted during 11 of the 12 months shown on the stem and leaf plot are recorded in the list...

18

The ages of guests at a dinner party are recorded in the frequency table.

24

What is the difference between the length of the longest boat and the length of the shortest boat?



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NAME: _____

Show your work in the space HERE.

DATA & GRAPHS review

1

2

4

5

1

8

10

11

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Organized & Easy to Use



TradeQuest

4th Grade
DATA & GRAPHS
TEKS Tracking Sheet

4.9A Represent Data on a frequency table, dot plot or stem-and-leaf plot marked with whole numbers and fractions.
4.9B Solve one- and two-step problems using data in whole number, decimal, and fraction form in a frequency table, dot plot, or stem-and-leaf plot.

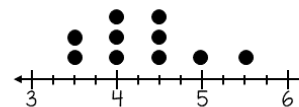
	Stem-and-Leaf Plot with 2-Digit Whole Numbers	Stem-and-Leaf Plot with 3-Digit Whole Numbers	Stem-and-Leaf Plot with Decimals	Stem-and-Leaf Plot with Fractions	Dot Plots with Whole Numbers	Dot Plots with Fractions	Dot Plots with Decimals							
Exit Slip # →	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Alexander	1	1	1		1	1	1	1						
Valeria	0	$\frac{1}{2}$	$\frac{1}{2}$		0	0	$\frac{1}{2}$	1						
Jaekwon	1	1	1		1	1	1	1						
Chantal	1	1	1		1	1	1	1						
Marco	$\frac{1}{2}$	$\frac{1}{2}$	1		0	$\frac{1}{2}$	1	1						
Enrique	1	1	1		1	1	1	1						
Lillian	1	1	1		1									
Elisa	1	1	1		1									
Ming	0	$\frac{1}{2}$	$\frac{1}{2}$		$\frac{1}{2}$									
Sophie	$\frac{1}{2}$	1	1		$\frac{1}{2}$									
Miguel	1	1	1		1									
Grace	1	1	1		1									
Marcel	1	1	1		$\frac{1}{2}$									
Salim	1	1	1		1									
Misha	0	$\frac{1}{2}$	1		0									
Diego	1	1	1		1									
Mia	1	1	1		1									
Rick	$\frac{1}{2}$	1	1		$\frac{1}{2}$									
Elijah	1	1	1		1									
Evan	$\frac{1}{2}$	$\frac{1}{2}$	1		0									
Rashid	1	1	1		1									

Name: _____

DATA & GRAPHS 4.9A & 4.9B #11

Represent Data & Solve 1 & 2-step problems using data

Pencil Lengths



1. Complete the frequency table to represent the data in the dot plot.

Length (in.)	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6
Number of pencils							

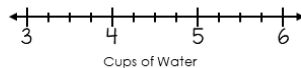
2. How many pencils are there in all?
length? _____

Name: _____

DATA & GRAPHS 4.9A & 4.9B #12

Represent Data & Solve 1 & 2-step problems using data

Cups of Water Consumed by Players During Practice



1. Complete the dot plot with the data shown in the frequency table.

Cups of Water	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5	$5\frac{1}{2}$	6
Number of Players	4	2	3	3	1	1	0

2. What is the difference between the greatest cups of water consumed by a player and the fewest cups of water consumed by a player?

Name: _____

DATA & GRAPHS 4.9A & 4.9B #1

Represent Data & Solve 1 & 2-step problems using data

Student Heights in Inches

Stem	Leaf
4	3 8
5	0 1 4 7 7
6	0 1 1 4

4|8 means 48 inches

1. List all the student heights represented on the stem and leaf plot.

2. What is the difference in inches between the tallest and shortest student?

Fun & Engaging Activities



Resources that work together seamlessly

4.9A
4.9B

STEM-AND-LEAF PLOTS WITH Decimals

Sometimes the stems are _____ and the leaves are _____. If a number doesn't have a digit in the tenths place, you can _____.

Use the data below to create a stem-and-leaf plot:

PENCIL LENGTHS IN CM

4.5, 4, 5.8, 5.2, 6.7, 4.8, 5.5, 6, 5, 4.4, 6, 5.9, 7, 5.8, 7,

First, list the numbers from least to greatest:

Complete the frequency table below. Use the information given the bottom of the page to help.

PENCIL LENGTHS (CM)

Stem	Leaves
4	
5	
6	
7	

Key: _____

Circle the leaf that shows the shortest pencil length.
What is the number that is represented by that leaf?

Circle the leaf that shows the greatest pencil length.
What is the number that is represented by that leaf?

What is the difference between the shortest and longest pencil length?

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DATA 3-in-a-row

Using Stem-and-Leaf Plots, Dot Plots & Frequency Tables

Roll to Select a Data Set

MOVIES

Number of Hours

Movie Lengths

Length in Hours	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5
Tally										

Movie Lengths

Length in Hours	1/2	1	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	5
Tally					2 1/2	3				

MOVIES

Number of Hours

MOVIES

Number of Hours

Includes Digital Practice

The number of visitors each month at a zipline course is listed below.

89, 102, 95, 97, 75, 105, 63, 88, 100

Which stem and leaf plot displays this data set?



A

Stem	Leaf
6	3
7	5
8	8 9
9	5 7
10	0 2 5

7|5 means 75

B

Stem	Leaf
6	3
7	5
8	8 8
9	5 7
10	0 2 5

7|5 means 75

C

Stem	Leaf
6	3
7	5
8	8 9
9	5 7
1	1 2 5

7|5 means 75

MARVEL Math

☒ A

☐ B

☐ C

Clear selection

#5 [TEKS 4.9A]

1 point

The lengths of pencils were measured in inches. The lengths

Stem	Leaf
6	3 3 3 4 4 4
7	0 2 2 3 4 4 4

About the Author

This resource was created by Melissa Johnson, who has 16 years of k-10 teaching experience and a masters degree in Mathematics Education. Her resources build conceptual understanding, make connections between math topics and engage students in the mathematics they are learning.



MARVEL Math