

**AMERICAN MATH HW
WEEK OF 24MAR TO 28MAR**

Due Date: 03/30 by midnight

Focus for the week: The focus of the HW this week is to be able to represent and interpret data. The HW for this week focuses on preparing for the **quiz on Wednesday, 03/26**. The topics in the quiz include the following:

- Frequency table
- Mean, mode, median, range
- Line plots
- Stem and leaf plot

Pacing guideline: **Look at the top right corner of the page** to see the suggested pace for the homework

Uploading Instructions: Upload homework on Archie and wait till you get the message – “**the file has been successfully uploaded**”. If for any reason you have technical issues, get in touch with me as soon as possible.

IMPORTANT – Please show all your work for FULL CREDIT. If you are multiplying or dividing, I would like to see the multiplication and division sentences to see what numbers are being multiplied or divided.

Note: Bring your homework to class everyday. I will discuss the HW from the previous day in every class. It is important to practice the assigned topics daily because the next day’s instruction builds on the previous lesson.

ANNOUNCEMENT – You have a quiz on Represent and Interpret Data on Wednesday, 03/26. Use the HW for Tuesday to review for the quiz.

Name _____

Stem-and-Leaf Plots

- Use the data in the Daily Temperatures table to make a stem-and-leaf plot.
- Use the data in the Minutes Spent Doing Homework table to make a stem-and-leaf plot.

Daily Temperatures (°F)							
88	91	95	95	84	79	92	96

Minutes Spent Doing Homework						
25	14	30	34	13	39	28

Problem Solving

- Atul recorded the number of points his team scored in ten basketball games and put them in a table. Make a stem-and-leaf plot from the data.
- The school librarian recorded the total number of books checked out from the library each day for two weeks. She put the data in a table. Make a stem-and-leaf plot from the data.

Points Scored in a Game				
24	34	25	28	28
25	26	30	32	32

Number of Books Checked Out				
94	72	75	87	90
83	85	94	74	88

Name _____

Use Stem-and-Leaf Plots

1. Wen used a stem-and-leaf plot to record the number of football cards that he and his friends have collected. How many friends have collected 50 or more cards?

2. What is the range of the number of football cards collected?

3. How many friends have collected between 30 and 50 cards?

Number of Football Cards Collected

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

Key: 1 | 9 represents 19 cards

4. How many more friends have collected more than 40 cards than have collected less than 40 cards?

Problem Solving

5. The girls on Yu's soccer team sold boxes of cards to raise money for new uniforms. Yu recorded data about their sales in a stem-and-leaf plot. How many girls sold more than 30 boxes of cards?

6. What is the median number of boxes of cards sold?

7. How many girls on the team sold cards? Explain.

Boxes of Cards Sold

Stem	Leaves
2	2 2 4
3	1 3 4 5 5 9
4	5 8 9
5	1

Key: 2 | 2 represents 22 boxes

8. Explain how the stem-and-leaf plot would change if another girl on Yu's soccer team sold 60 boxes of cards.

Name _____

Chapter Review

1. What is the median of the data set?

7, 3, 4, 6, 4, 6, 5, 5, 5

- (A) 4 (B) 5 (C) 6 (D) 7

2. Janae and her classmates went to an apple orchard to pick apples. Janae recorded the number of apples some of her classmates picked.

Number of Apples Picked				
7	12	9	18	24
35	18	20	20	35
25	12	18	20	20

Part A

Make a stem-and-leaf plot of the data.

Part B

Make a frequency table of the data.

Name _____

Use the Amount of Raisins Used table for Problems 7 and 8.

Berto and his classmates made trail mix. They each used different amounts of raisins. Berto recorded the amounts of raisins that the classmates used.

Amount of Raisins Used (cups)				
$\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{4}$
$\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$

7. Berto wants to make a line plot with the data. How many totals Xs will go above $\frac{1}{4}$ and $\frac{3}{4}$?

8. If Berto created a frequency table with this data, what number would be in the frequency column for $\frac{1}{2}$?

9. Brandon borrowed a book from the library. The data show the lengths of time Brandon read the book each day until he finished it.

Part A Draw a line plot of the data.

Time Reading Book (h)
$\frac{1}{4}$, $\frac{1}{4}$, 1 , $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, $\frac{1}{2}$, $\frac{1}{4}$

Part B What is the difference between the longest time and shortest time Brandon spent reading the book? Explain.

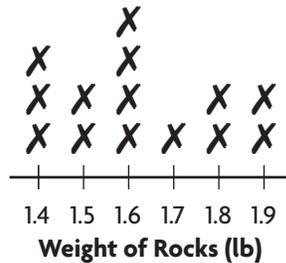
14. Edwige asked the 3rd-grade students to find the distance that they live from the school, in miles. Edwige recorded the students' answers in a frequency table. How many total students live less than 1 mile or more than 2 miles from the school?

Distance Lived from School (m)	
Distance	Frequency
0.4	4
0.8	8
1.1	3
1.4	6
1.8	6
2.1	2
2.2	1
2.5	4

_____ students

Use the Weight of Rocks line plot for Problems 14 and 15.

Frank wants to record the weights of the different rocks in his collection. He weighs each rock in pounds and records the data in a line plot.



14. What is the range of the data?
- (A) 0.5 lb (C) 1.5 lb
 (B) 1 lb (D) 1.6 lb
15. How many rocks does Frank have in his collection?
- (A) 10 (C) 13
 (B) 11 (D) 14

Lesson Check

Fill in the bubble completely to show your answer.

Use the table at right for Problems 5–7.

5. What are the stems for the stem-and-leaf plot?

(A) 0, 1, 2, 4, 5, 6, 7, 8, 9, (C) 1, 2, 3, 4

(B) 0, 1, 2, 3, 4 (D) 2, 3, 4

6. Which stem has the most leaves?

(A) 1 (C) 3

(B) 2 (D) 4

7. How many more leaves are there for 2 than there are for 3 and 4 combined?

(A) 5 (C) 3

(B) 2 (D) 1

The data show the number of hours 16 students exercise in one month. Jen is making a stem-and-leaf plot to display the information.

Number of Hours Exercised in One Month			
18	28	22	20
34	30	19	25
42	19	27	41
25	38	26	28

Lesson Check

Fill in the bubble completely to show your answer.

Use the table at right for Problems 9–11.

9. The stem-and-leaf plot at the right shows the ages of people who attended a dog obedience class. What was their median age?

- Ⓐ 9
 Ⓑ 21
 Ⓒ 23
 Ⓓ 33

**Ages of People Who Attended
a Dog Obedience Class**

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

Key: 0 | 9 represents 9 years of age

10. Which age group was most widely represented at the class?

- Ⓐ teens Ⓒ thirties
 Ⓑ twenties Ⓓ forties

11. How many more people were over 20 years old than were under 20 years old?

- Ⓐ 8 Ⓒ 2
 Ⓑ 1 Ⓓ 7