

**AMERICAN MATH HW  
WEEK OF 17MAR TO 21MAR**

**Due Date: 03/22 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:

- 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 converting and comparing units of time, and elapsed time on Thursday, 03/20. Use the HW for Wednesday, Thursday, and Friday for the week of 10MAR-14MAR as a review for the quiz.**

Name \_\_\_\_\_

## Frequency Tables

1. Make a frequency table using the data in the table.

Distance Rowed (km)				
3.4	4.9	3.4	5.2	2.7
3.4	5.2	5.2	2.7	1.6
4.9	4.9	3.4	3.4	4.9

2. Make a frequency table using the data in the table.

Books Checked Out				
2	6	3	5	2
3	2	7	3	6
6	3	5	2	3

## Problem Solving

3. Oistin made a table to show how many hits each baseball player got in 2 games. Use the data from the table to make a frequency table.

Number of Hits					
0	1	1	2	3	3
1	1	1	0	2	3
4	2	2	1	4	0

4. Sahara made a table to show how many pounds of paper were left in the recycle bin each day. Use the data from the table to make a frequency table.

Paper Left in Recycling Bin (lb)				
$10\frac{1}{4}$	$14\frac{1}{8}$	$12\frac{7}{8}$	$10\frac{1}{4}$	$18\frac{3}{4}$
$12\frac{7}{8}$	$18\frac{3}{4}$	$14\frac{1}{8}$	$18\frac{3}{4}$	$14\frac{1}{8}$
$18\frac{3}{4}$	$13\frac{9}{16}$	$10\frac{1}{4}$	$18\frac{3}{4}$	$10\frac{1}{4}$

Name \_\_\_\_\_

# Use Frequency Tables

Use the frequency table for Problems 1–4.

1. Tira is in charge of cookie sales for her scout troop. How many members sold more than 40 boxes of cookies?

\_\_\_\_\_

2. How many members sold fewer than 40 boxes of cookies?

\_\_\_\_\_

3. How many boxes of cookies did the most number of members sell?

\_\_\_\_\_

Number of Boxes of Cookies Sold	
Boxes	Frequency
25	4
30	6
35	7
40	5
45	2
50	1

4. How many members are represented in Tira's frequency table?

\_\_\_\_\_

## Problem Solving

Use the frequency table for Problems 5–7.

5. The table shows the number of absences in the fourth grade during the school year. How many students were absent either 1 or 2 times during the school year?

\_\_\_\_\_

6. How many students were absent more than 2 times during the school year?

\_\_\_\_\_

7. **Multi-Step** How many more students were absent 2 days or less than students who were absent 3 days or more? Explain your answer.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Number of Absences	
Absences	Frequency
0	36
1	10
2	15
3	4
4	2

Name \_\_\_\_\_

## Determine Mode, Median, and Range

**Find the median, mode, and range.**

1. Number of points scored in basketball games: 82, 74, 70, 81, 67, 83, 74

List the data in order from least to greatest. 67, 70, 74, 74, 81, 82, 83

67, 70, 74 (74), 81, 82, 83

74 occurs twice.

$$83 - 67 = 16$$

median: 74

mode: 74

range: 16

2. Number of hours worked per week: 25, 20, 16, 18, 20, 27, 26, 24, 26

median: \_\_\_\_\_

mode: \_\_\_\_\_

range: \_\_\_\_\_

**Use the data in the bar graph for Problems 3 and 4.**

3. Find the median. \_\_\_\_\_

Find the mode. \_\_\_\_\_

Find the range. \_\_\_\_\_

4. Is it reasonable to say that about half the students ran 7 miles or more? Explain.

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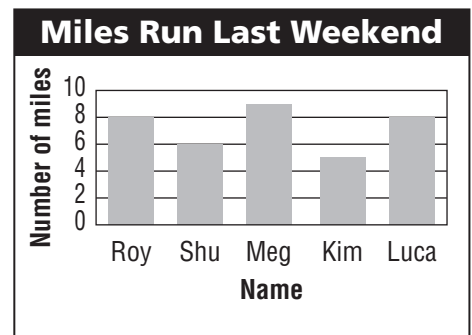
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## Problem Solving

**Use the table for Problems 5–7.**

5. What is the median daily attendance? \_\_\_\_\_
6. What is the mode of the data? \_\_\_\_\_
7. Is it reasonable to say that most often 22 students attended class? Explain.

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Class Attendance	
Day	Number of students
Mon	24
Tue	20
Wed	23
Thu	22
Fri	20

Name \_\_\_\_\_

## Line Plots

1. Make a line plot using the data in the table.

Number of Vowels in First Name			
1	2	2	2
3	4	4	5
1	2	2	2
3	3	1	2
2	2	2	2

2. Make a line plot using the data in the table.

Time Spent Practicing Piano (in hours)			
$\frac{3}{4}$	1	$\frac{1}{2}$	$\frac{3}{4}$
$1\frac{1}{4}$	$\frac{1}{2}$	$\frac{3}{4}$	1
1	$1\frac{1}{4}$	1	$\frac{1}{2}$
1	$\frac{1}{2}$	1	$\frac{1}{2}$

## Problem Solving

3. Rae took a walk through his neighborhood. He recorded the number of trees he saw in each yard. Use the data in the table to make a line plot to represent the data.

Number of Trees			
3	0	3	5
4	1	2	0
5	4	4	6
0	5	5	0
1	2	4	2
2	0	1	0

4. Kala recorded the amount of time it took her to walk to school each day. Use the data in the table to make a line plot to represent the data.

Time Spent Walking (in minutes)			
20	18	19	16
18	15	20	18
19	20	15	20
16	19	20	19

Name \_\_\_\_\_

## Use Line Plots

Use the line plot for Problems 1-6.

- Mr. Lennox collected data on the heights of the students in his class. He represents the data he collected in a line plot. How many students are 54.5 inches tall?

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- How many students did Mr. Lennox collect data about?

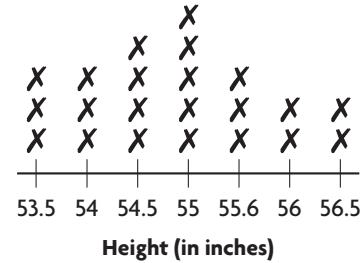
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- How many students are more than 55 inches tall?

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- What is the range of heights?

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- What is the mode of the class heights?

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- What is the difference between the number of students who are 55 inches or less tall and the number of students who are more than 55 inches tall?

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## Problem Solving

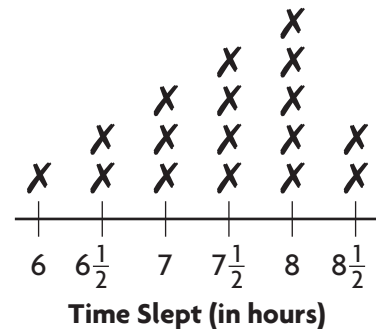
Use the line plot for Problems 7-9.

- Tajsa asked several people how many hours they slept each night. He represents the data he collected in a line plot. How many hours of sleep is most common?

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- What is the median number of hours slept?

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- How many more people sleep 8 or more hours than people who sleep 7 or less hours? Explain.

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