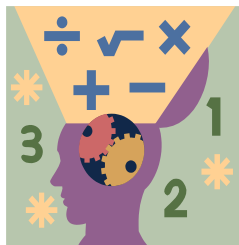


Name: \_\_\_\_\_ Section: \_\_\_\_\_



### Homework

Greetings Scholars and Parents. Hope you are all comfortably settled into the new year. This week we will be finishing up **Chapter 18 – Data & Plots**. Remember to check **CINEMATH** for reviews! **There will be no test this week, as it has been postponed.**

### Extra Practice – OPTIONAL THIS WEEK

Additional practice for the daily lessons is available on IXL. To access extra practice, please have your child login into IXL. Under the **“FROM YOUR TEACHER”** section, scholars will find Teacher Assigned Lessons. From there, you will see a list of lessons reinforcing the daily skills.

- [Create frequency charts](#)
- [Create and interpret line plots with fractions](#)
- [Create line plots to find totals and averages](#)
- [Interpret line graphs](#)
- [Create line graphs](#)
- [Find the mean, median, mode, or range from a list of whole numbers](#)

### Notes

**Completed homework packets should be uploaded or turned in on Sunday, March 16th.** Students must prove and show all their work in the provide space. Scholars should use a separate sheet of paper if they need additional space. Failure to show work or packets submitted after the due date will result in a lower grade. If a scholar struggles with a lesson, they can review the daily lesson on HMH. Please feel free to contact me with any questions or concerns at [peter.vanegas@archimedean.org](mailto:peter.vanegas@archimedean.org).

<u>Monday</u>	February 24th	– 18.2
<u>Tuesday</u>	February 25 <sup>th</sup>	– 18.3
<u>Wednesday</u>	February 26 <sup>th</sup>	– 18.5
<u>Thursday</u>	February 27 <sup>th</sup>	– 18.1
<u>Friday</u>	February 28 <sup>TH</sup>	– No additional work; Enjoy the weekend!

# Represent and Interpret Line Plots

Go Online

Interactive Examples

Use the data to complete the line plot. Then answer the questions.

A clerk in a health food store makes bags of trail mix. The amount of trail mix in each bag is listed below.

$$\frac{1}{4} \text{ lb}, \frac{1}{4} \text{ lb}, \frac{3}{4} \text{ lb}, \frac{1}{2} \text{ lb}, \frac{1}{4} \text{ lb}, \frac{3}{4} \text{ lb},$$

$$\frac{3}{4} \text{ lb}, \frac{3}{4} \text{ lb}, \frac{1}{2} \text{ lb}, \frac{1}{4} \text{ lb}, \frac{1}{2} \text{ lb}, \frac{1}{2} \text{ lb}$$

1. What is the combined weight of the  $\frac{1}{4}$ -lb bags? 1 lb

**Think:** There are four  $\frac{1}{4}$ -pound bags.

2. What is the combined weight of the  $\frac{1}{2}$ -lb bags? \_\_\_\_\_
3. What is the combined weight of the  $\frac{3}{4}$ -lb bags? \_\_\_\_\_
4. What is the total weight of the trail mix used in all the bags? \_\_\_\_\_
5. What is the range of the weights of the trail mix? \_\_\_\_\_

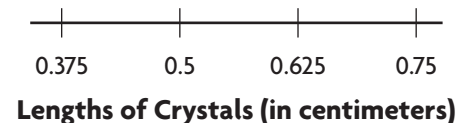


Siroun uses crystals to make a bracelet. The lengths of the crystals are shown below.

$$0.5 \text{ cm}, 0.625 \text{ cm}, 0.75 \text{ cm}, 0.5 \text{ cm}, 0.375 \text{ cm}, 0.5 \text{ cm}, 0.75 \text{ cm},$$

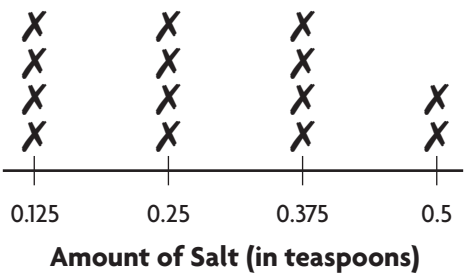
$$0.375 \text{ cm}, 0.75 \text{ cm}, 0.625 \text{ cm}, 0.5 \text{ cm}, 0.375 \text{ cm}, 0.625 \text{ cm}, 0.75 \text{ cm}$$

6. What is the combined length of the 0.5-cm crystals? \_\_\_\_\_
7. What is the combined length of the 0.625-cm crystals? \_\_\_\_\_
8. What is the total length of all the crystals in the bracelet? \_\_\_\_\_
9. What is the mean length of each crystal in the bracelet? Round to the nearest thousandth. \_\_\_\_\_



# Lesson Check

A baker uses different amounts of salt when she bakes loaves of bread, depending on which recipe she is following. The amount of salt called for in each recipe is shown on the line plot.



11. Based on the line plot, how many recipes call for more than 0.25 teaspoons of salt?

\_\_\_\_\_

12. What is the mean for the amount of salt called for in each recipe? Round to the nearest tenth.

\_\_\_\_\_

13. What is the range of the amounts of salt?

\_\_\_\_\_

# Represent and Interpret Line Graphs

**Go Online**

Interactive Examples

Use the table for 1–7.

Hourly Temperature							
Time	10 a.m.	11 a.m.	12 noon	1 p.m.	2 p.m.	3 p.m.	4 p.m.
Temperature (°F)	$8\frac{1}{2}$	$11\frac{1}{4}$	16	$26\frac{3}{4}$	31	$37\frac{3}{4}$	$41\frac{1}{4}$

1. Write the related number pairs for the hourly temperature as ordered pairs.

$(10, 8\frac{1}{2})$ ,  $(11, 11\frac{1}{4})$ ,  $(12, 16)$ ,  $(1, 26\frac{3}{4})$ ,  $(2, 31)$ ,  $(3, 37\frac{3}{4})$ ,  $(4, 41\frac{1}{4})$

\_\_\_\_\_

\_\_\_\_\_

2. What scale would be appropriate to graph the data?
- \_\_\_\_\_

3. What interval would be appropriate to graph the data?
- \_\_\_\_\_

4. Make a line graph of the data.
- \_\_\_\_\_

5. Use the graph to find the difference in temperature between 11 a.m. and 1 p.m.
- \_\_\_\_\_

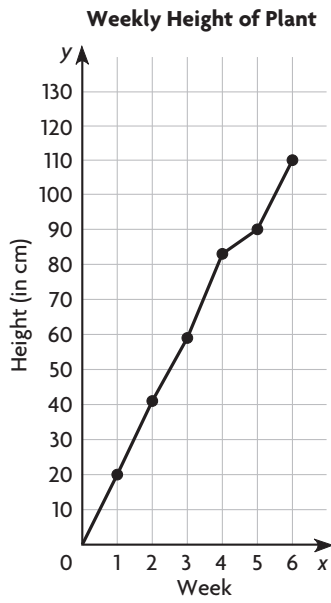


## Problem Solving

6. Between which two hours did the least change in temperature occur?
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

7. What was the change in temperature between 12 noon and 4 p.m.?
- \_\_\_\_\_

## Lesson Check



8. About how many centimeters did the plant grow in the first three weeks?

---

9. Between which two weeks did the plant grow the least?

---

# Interpret Data Using Mean, Median, Mode, and Range

Go Online

Interactive Examples

Use the table for 1–5.

1. What is the mean of the data?

$$\frac{10 + 8 + 11 + 12 + 6}{5} = \frac{47}{5} = 9.4$$

9.4 points

2. What is the median of the data?

3. What is the mode(s) of the data?

4. What is the range of the data?

Number of Points Blaine Scored in Five Basketball Games	
Game	Points Scored
1	10
2	8
3	11
4	12
5	6

5. Suppose Blaine played a sixth game and scored 10 points during the game. Find the new mean, median, and mode.

## Problem Solving

6. An auto manufacturer wants their line of cars to have a median gas mileage of 25 miles per gallon or higher. The gas mileage for their five models are 23, 25, 26, 32, and 19. Do their cars meet their goal? Explain.

7. A sporting goods store is featuring several new bicycles, priced at \$300, \$250, \$325, \$780, and \$350. They advertise that the average price of their bicycles is under \$400. Is their ad correct? Explain.

- 8.
- 
- WRITE**
- Math*
- Explain how to find the mean of a set of data.

Lesson Check

9. The prices for a video game at 5 different stores are \$39.99, \$44.99, \$29.99, \$35.99, and \$31.99. What is the mode(s) of the data?
10. Manuel is keeping track of how long he practices the saxophone each day. The table gives his practice times for the past five days. What is the mean of his practice times?

Manuel's Practice Time	
Day	Minutes Practiced
Monday	25
Tuesday	45
Wednesday	30
Thursday	65
Friday	30

# Collect and Organize Data

Go Online

Interactive Examples

**Tell if the survey question or observation is good.**

**Explain your reasoning.**

- Where are you going for summer vacation?  
(Florida, New York, California, Staying Home)

Not good; I cannot answer this question if I am going somewhere not listed,  
such as Ohio.

- Record the number of pieces of mail you get in one week.

**Use the table at the right for 3 and 4.**

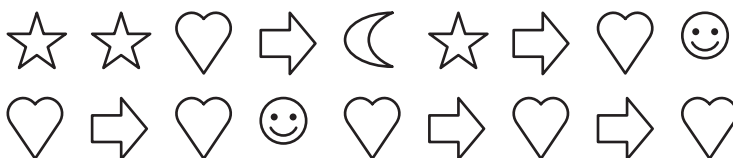
Each person in Ari's group chooses three different books from the bookshelf, lays them side-by-side, and measures the length in inches. He records the data in the table.

- What was the longest measure? \_\_\_\_\_
- How many students measured books? \_\_\_\_\_

Length of Books	
$14\frac{1}{2}$ in.	$16\frac{3}{4}$ in.
$15\frac{1}{4}$ in.	$17\frac{1}{4}$ in.
$12\frac{1}{2}$ in.	$15\frac{3}{4}$ in.
$13\frac{3}{4}$ in.	$14\frac{1}{2}$ in.
$13\frac{1}{2}$ in.	15 in.
18 in.	$20\frac{1}{2}$ in.

**Use the tally table at the right for 5–7.**

- Ohanna has the following stickers. Tally the number of each type of sticker Ohanna has.



- Which type of sticker occurs least often? \_\_\_\_\_
- Ohanna gives 3 heart stickers to a friend. How many heart stickers does she have left? \_\_\_\_\_

Sticker	Tally
☆	
➡	
♥	
😊	
☾	

Lesson Check

8. Which of the following survey questions or observations is good?
- (A) Do you like cheese pizza or stinky anchovy pizza better?
  - (B) How many times do you blink in a minute?
  - (C) Record the number of movies every student in the school watched last weekend.
  - (D) Do you like where you sit in the classroom?

9. Carlton and his classmates each measured how far a toy car rolled during a science investigation. He records the result in the tally table. How many people conducted the science investigation?

- (A) 10
- (B) 19
- (C) 22
- (D) 37

Distance	Tally
2 m	
2.5 m	
3 m	
3.5 m	