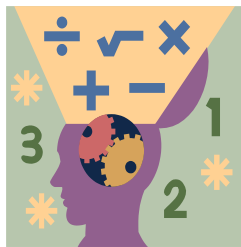


Name: _____ Section: _____



Homework

Greetings, Scholar and Parents! This week, we start **Chapter 18 – Data and Graphs**. Students will take knowledge acquired in chapter 17 and use this to read, write, and interpret more advanced graphs. Additionally, students will go over important measures of center for data and range, including mean, median, and mode.

Extra Practice

Additional practice for the daily lessons is available on IXL. To access extra practice, please have your child login into IXL and see **“From Your Teacher”** section. These are recommended for reinforcement.

- [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 table or line plot](#)
- [Find the mean, median, mode, or range from a list of whole numbers](#)
- [Calculate mean, median, mode, and range: word problems](#)

Notes

This homework assignment is due on Sunday, February 22nd. 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.

<u>Monday</u>	February 16 th	No School – Presidents’ Day.
<u>Tuesday</u>	February 17 th	18.3
<u>Wednesday</u>	February 18 th	18.4
<u>Thursday</u>	February 19 th	18.5
<u>Friday</u>	February 20 th	PARK DAY!!! No extra assignments.

**** DESPITE THE FUN DAY, HOMEWORK IS STILL DUE AT THE STANDARD TIME AND DAY. GET YOUR HOMEWORK DONE EARLY!!!**

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.

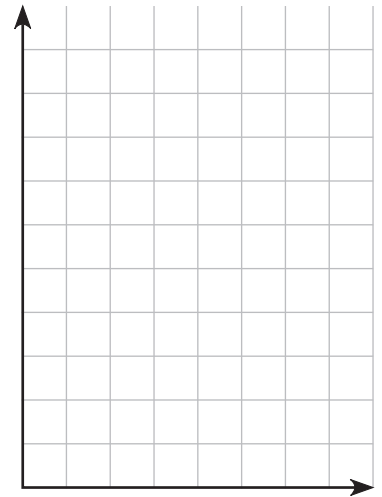
$(10, 8\frac{1}{2}), (11, 11\frac{1}{4}), (12, 16), (1, 26\frac{3}{4}), (2, 31), (3, 37\frac{3}{4}), (4, 41\frac{1}{4})$

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.

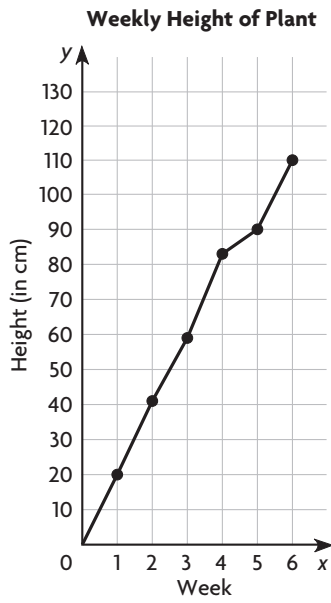


Problem Solving

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?

Represent Mean as Fair Share and Balance Point

Go Online

Interactive Examples

Use counters to find the mean of the data set.

1. Six students count the number of buttons on their shirts.
The students have 0, 4, 5, 2, 3, and 4 buttons.

Make 6 stacks of counters with heights 0, 4, 5, 2, 3, and 4.

Rearrange the counters so that all 6 stacks have the same height.

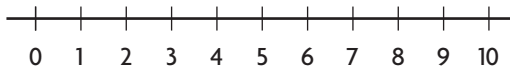
After rearranging, each stack has 3 counters.

So, the mean of the data set is 3.

2. Four students completed 1, 2, 2, and 3 chin-ups. _____

Make a line plot for the data set and use it to check whether the given value is a balance point for the data set.

3. Ishi's friends ate 0, 2, 3, 4, 6, 6, and 7 pretzels.
Ishi says the mean of the data is 4. Is Ishi correct?



The total distance from 4 for values less than 4 is _____.
The total distance from 4 for values greater than 4 is _____.
The mean of 4 _____ a balance point.
So, Ishi _____ correct.

Problem Solving

4. Three baskets contain 8, 8, and 11 soaps.
Can the soaps be rearranged so that there is an equal whole number of soaps in each basket?
Explain why or why not.
5. Five pages contain 6, 6, 9, 10, and 11 stickers.
Can the stickers be rearranged so that there is an equal whole number of stickers on each page?
Explain why or why not.

Lesson Check

7. What is the mean of 9, 12, and 15 stamps?
8. Four friends spent \$9, \$11, \$11, and \$17 on dinner. If they split the bill equally, how much does each person owe?

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