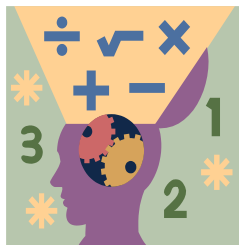


Name: \_\_\_\_\_ Section: \_\_\_\_\_



### Homework

Greetings, Scholar and Parents! This week, we start **Chapter 17 – Rules and Graphs**. Students will be introduced to the idea of input-output relationships and functions along with coordinates and the coordinate plane (cartesian plane). This is one of the most fundamental chapters for students to master in mathematics, as it informs almost all further explorations and growth in mathematics from here on.

### 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.

- [Complete an input/output table](#)
- [Complete a table for a two-variable relationship](#)
- [Input/output tables: find the rule](#)
- [Find pattern rules from graphs](#)
- [Objects on a coordinate plane](#)
- [Graph points on a coordinate plane](#)
- [Follow directions on a coordinate plane](#)

### Notes

**This homework assignment is due on Sunday, February 15<sup>th</sup>.** 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 9 <sup>th</sup>	17.5
<u>Tuesday</u>	February 10 <sup>rd</sup>	17.6
<u>Wednesday</u>	February 11 <sup>th</sup>	<b>TEST – ALL GEOMETRY CONCEPTS</b>
<u>Thursday</u>	February 12 <sup>th</sup>	17.7
<u>Friday</u>	February 13 <sup>th</sup>	18.2

## Understand Ordered Pairs

Use Coordinate Plane A to write an ordered pair for the given point.


1. A (2, 3)
2. B
3. C
4. D
5. E
6. F

Plot and label the points on Coordinate Plane B.

7. N(7, 3)
8. R(0, 4)
9. O(8, 7)
10. M(2, 1)
11. P(5, 6)
12. Q(1, 5)

## Problem Solving

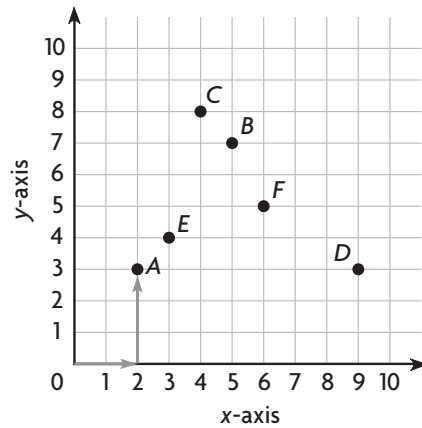
Use the map for 13–14.

13. Which building is located at (5, 6)?  
\_\_\_\_\_
14. What is the distance between Kip's Pizza and the bank?  
\_\_\_\_\_
15.  **WRITE** *Math* What is a situation in which you might locate points on a coordinate plane?  
\_\_\_\_\_

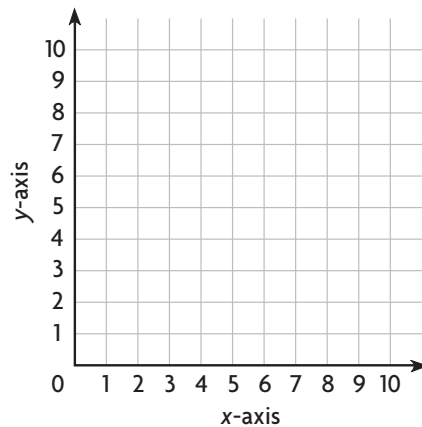
Go Online

Interactive Examples

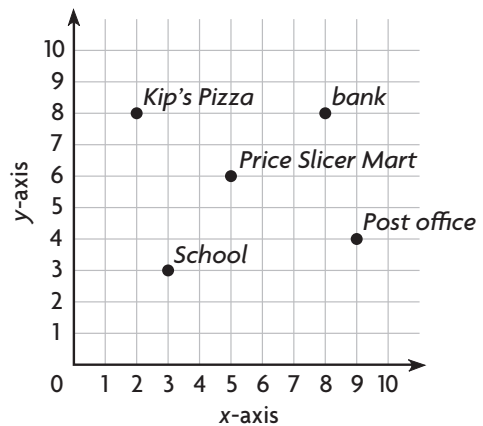
Coordinate Plane A



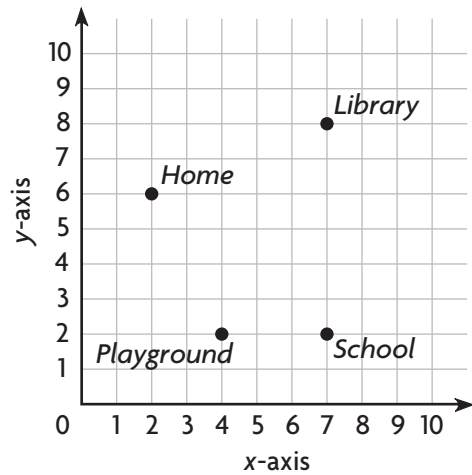
Coordinate Plane B



Port Charlotte



## Lesson Check



16. What ordered pair describes the location of the playground?

---

17. What is the distance between the school and the library?

---

## Spiral Review

18. What is the value of the underlined digit?

45,769,331

---

20. Harlow can bicycle at a rate of 18 miles per hour. How many hours would it take him to bicycle a stretch of road that is 450 miles long?

---

19. Joji charges \$18 for each lawn he mows. Suppose he mows 17 lawns per month. How much money will Joji make per month?

---

21. Yiren uses 192 beads to make a bracelet and a necklace. It takes 5 times as many beads to make a necklace as it does to make a bracelet. How many beads are used to make the necklace?

---

# Graph Data

Go Online

Interactive Examples

Graph the data on the coordinate plane.

1. 

Outdoor Temperature					
Hour	1	3	5	7	9
Temperature (°F)	61	65	71	75	77

a. Write the ordered pairs for each point.

---



---

b. How would the ordered pairs be different if the outdoor temperature were recorded every hour for 4 consecutive hours?

---



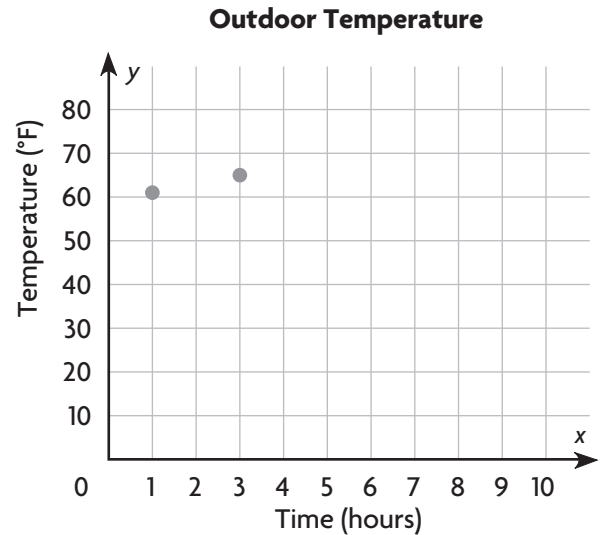
---



---



---



## Problem Solving

2. 

Windows Repaired					
Day	1	2	3	4	5
Total Number Repaired	14	30	45	63	79

a. Write the ordered pairs for each point.

---



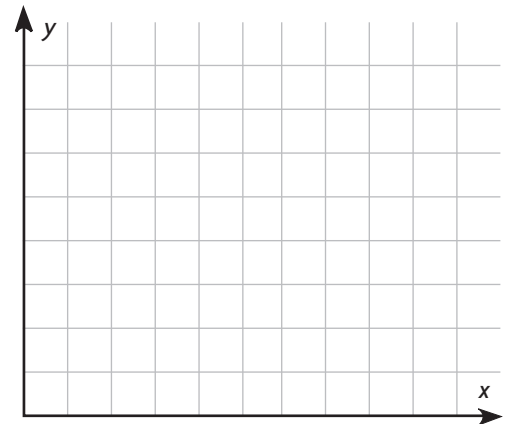
---

b. What does the ordered pair (2, 30) tell you about the number of windows repaired?

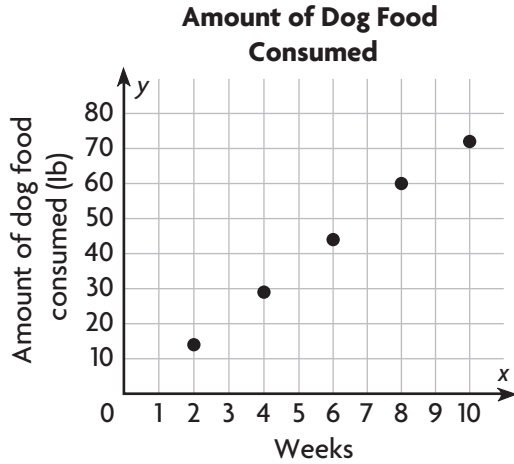
---



---



## Lesson Check



3. About how many weeks did it take for the dog to consume 45 pounds of food?

---

4. By the end of Week 8, how much food had the dog consumed?

---

## Spiral Review

5. A restaurant chain ordered 3,940 pounds of rice in 20-pound bags. About how many 20-pound bags of rice did the chain order?
6. The population of Linton is 12 times as great as the population of Ellmore. The combined population of both towns is 9,646 people. What is the population of Linton?

---

---

7. Dinesh needs  $\frac{1}{2}$  cup of bread crumbs for a casserole and  $\frac{1}{3}$  cup of bread crumbs for the topping. How many cups of bread crumbs does Dinesh need?
8. Jessie bought 3 T-shirts for \$6 each and 4 T-shirts for \$5 each. What expression can you use to describe how much Jessie spent?

---

---

# Graph and Analyze Relationships

Go Online

Interactive Examples

Write a rule and complete the table. Then answer the question.

1. Faye buys 15 T-shirts, which are on sale for \$3 each. How much money does Faye spend?

Number of T-shirts	1	2	3	5	10	15
Amount spent (\$)	3	6	9			

Possible rule:

Multiply the numberof T-shirts by 3.The total amount Faye spends is \$45.

2. The Liang family joins a fitness center. They pay \$35 per month. By the 12th month, how much money will the Liang family have spent?

Number of months	1	2	3	4	5	12
Total amount of money spent (\$)	35	70				

Possible rule:

The Liang family will have spent \_\_\_\_\_.

3. Hettie is stacking paper cups. Each stack of 15 cups is 6 inches high. What is the total height of 10 stacks of cups?

Number of stacks	1	2	3	10
Height (in.)	6	12	18	

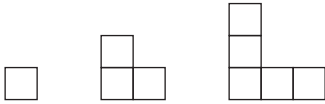
Possible rule:

The total height of 10 stacks is \_\_\_\_\_.

4. **WRITE** *Math* You have a table that shows a pattern. Describe two ways that you could find the 15th entry in the table.
- \_\_\_\_\_

## Lesson Check

5. How many squares are needed to make the eighth figure in the pattern?




---

6. What expression could describe the number of squares in the next figure in the pattern, Figure 4?

Figure 1



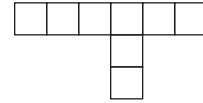
2 squares

Figure 2



5 squares

Figure 3



8 squares

---

## Spiral Review

7. Zima stores her collection of stickers equally in 7 sticker albums. If she has 567 stickers, how many stickers are in each album?

---

8. Ms. Angelino made 2 pans of lasagna and cut each pan into twelfths. Her family ate  $1\frac{1}{12}$  pans of lasagna for dinner. How many pans of lasagna were left?

---

9. What is the next number in this pattern?

0.54, 0.6, 0.66, 0.72, ■, ...

---

10. Jax is making a scarf that is 60 inches long and 5.5 inches wide. Jax wants to use decorative ribbon around the edges of the scarf. How much ribbon is needed?

---

# 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? \_\_\_\_\_

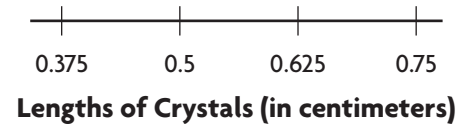


Siroun uses crystals to make a bracelet. The lengths of the crystals are shown below.

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

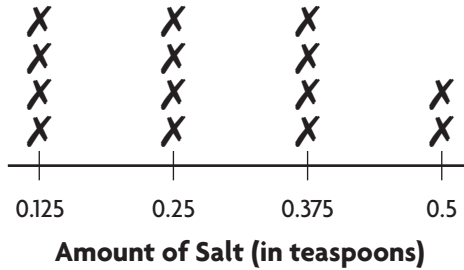
$$0.375 \text{ cm}, 0.75 \text{ cm}, 0.625 \text{ cm}, 0.5 \text{ cm}, 0.375 \text{ cm}, 0.625 \text{ cm}, 0.75 \text{ cm}$$

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. \_\_\_\_\_
10. **WRITE** *Math* Describe the steps you can use to find the mean of the decimal amounts.
- \_\_\_\_\_



## 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?

---

## Spiral Review

14. Ramona had  $8\frac{3}{8}$  in. of ribbon. She used  $2\frac{1}{2}$  in. for an art project. How many inches of ribbon does she have left? Find the difference in simplest form.

---

15. Ziazan bought  $\frac{1}{2}$  pound of cheese for 3 sandwiches. If he puts the same amount of cheese on each sandwich, how much cheese will each sandwich have?

---

16. What is 92.583 rounded to the nearest tenth?

---

17. In Yoshi's garden,  $\frac{3}{4}$  of the flowers are tulips. Of the tulips,  $\frac{2}{3}$  are yellow. What fraction of the flowers in Yoshi's garden are yellow tulips?

---