

Monday, December 9, 2019

Name: _____ Section: _____

5th Grade American Math Homework

Chapter 9 (Part 1)

Dear Family,

Throughout the next few weeks, our math class will be working with data and graphs. We will learn how to make and use line plots and line graphs to analyze data and solve problems. We will also learn how to plot and name points on a coordinate grid. You can expect to see homework that includes making and analyzing line graphs.

	To be completed on:	✓
Lesson 9.1	Monday 12/09	
Lesson 9.2	Tuesday 12/10	
Lesson 9.3	Wednesday 12/11	
Lesson 9.4	Thursday 12/12	
Quiz lessons 9.1-9.4	Friday 12/13	
Weekly Online H/W:		
I Ready 1 or 2 lessons per week due on Sunday 12/15		

Vocabulary

interval The difference between one number and the next on the scale of a graph

line graph A graph that uses line segments to show how data changes over time

scale A series of numbers placed at fixed distances on a graph to help label the graph

x-axis The horizontal number line on a coordinate plane

x-coordinate The first number in an ordered pair, which tells the distance to move right or left from (0, 0)

y-axis The vertical number line on a coordinate plane

y-coordinate The second number in an ordered pair, which tells the distance to move up or down from (0, 0).

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Name _____

Line Plots

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.

$\frac{1}{4}$ lb, $\frac{1}{4}$ lb, $\frac{3}{4}$ lb, $\frac{1}{2}$ lb, $\frac{1}{4}$ lb, $\frac{3}{4}$ lb,
 $\frac{3}{4}$ lb, $\frac{3}{4}$ lb, $\frac{1}{2}$ lb, $\frac{1}{4}$ lb, $\frac{1}{2}$ lb, $\frac{1}{2}$ 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? _____

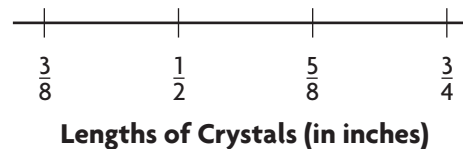
4. What is the total weight of the trail mix used in
all the bags? _____

5. What is the average amount of trail mix in each bag? _____



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

$\frac{1}{2}$ in., $\frac{5}{8}$ in., $\frac{3}{4}$ in., $\frac{1}{2}$ in., $\frac{3}{8}$ in., $\frac{1}{2}$ in., $\frac{3}{4}$ in.,
 $\frac{3}{8}$ in., $\frac{3}{4}$ in., $\frac{5}{8}$ in., $\frac{1}{2}$ in., $\frac{3}{8}$ in., $\frac{5}{8}$ in., $\frac{3}{4}$ in.



6. What is the combined length of the $\frac{1}{2}$ -in. crystals? _____

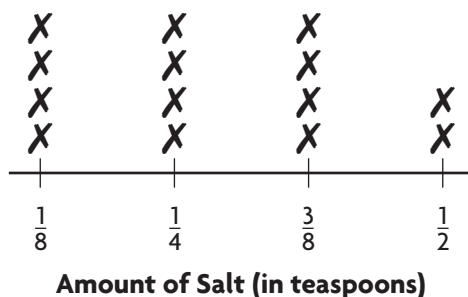
7. What is the combined length of the $\frac{5}{8}$ -in. crystals? _____

8. What is the total length of all the crystals in the bracelet? _____

9. What is the average length of each crystal in the bracelet? _____

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.



- Based on the line plot, how many recipes call for more than $\frac{1}{4}$ tsp of salt?

(A) 4 (C) 8
(B) 6 (D) 12
- What is the average amount of salt called for in each recipe?

(A) $\frac{1}{8}$ tsp (C) $\frac{2}{7}$ tsp
(B) $\frac{1}{4}$ tsp (D) $\frac{1}{2}$ tsp

Spiral Review

- 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. (Lesson 6.7)

(A) $5\frac{1}{8}$ in.
(B) $5\frac{7}{8}$ in.
(C) $6\frac{1}{8}$ in.
(D) $6\frac{1}{6}$ in.
- What is 92.583 rounded to the nearest tenth? (Lesson 3.4)

(A) 90
(B) 92.5
(C) 92.58
(D) 92.6
- Ben 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? (Lesson 8.4)

(A) $\frac{1}{6}$ lb
(B) $\frac{2}{3}$ lb
(C) $1\frac{1}{2}$ lb
(D) 6 lb
- 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? (Lesson 7.6)

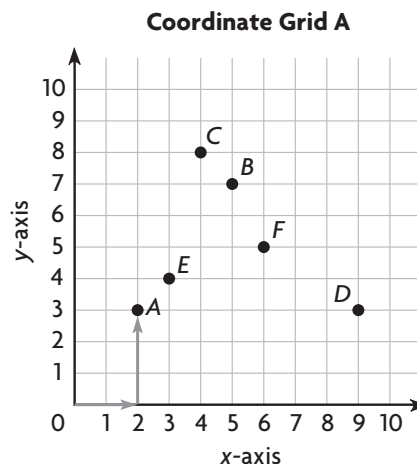
(A) $\frac{1}{12}$
(B) $\frac{5}{12}$
(C) $\frac{1}{2}$
(D) $\frac{5}{7}$

Name _____

Ordered Pairs

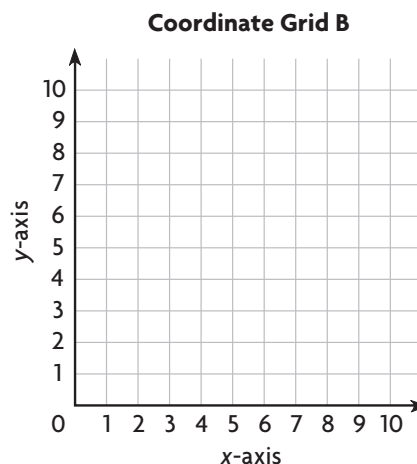
Use Coordinate Grid A to write an ordered pair for the given point.

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



Plot and label the points on Coordinate Grid 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)



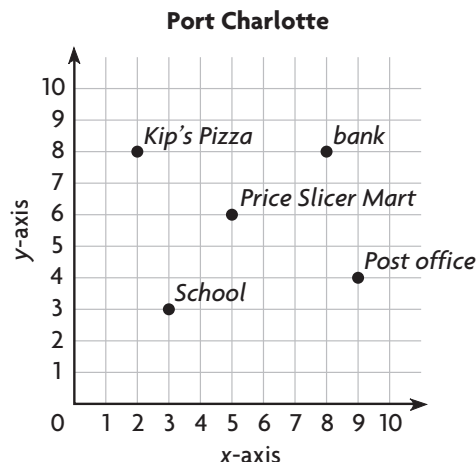
Problem Solving



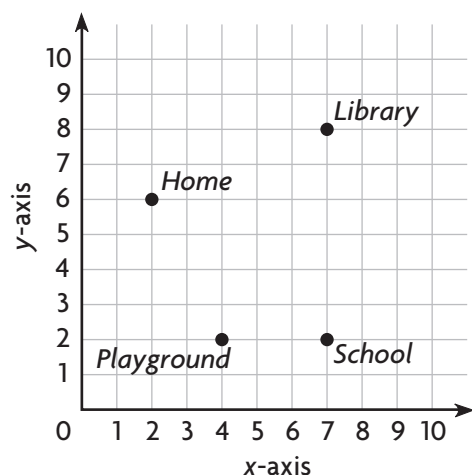
Use the map for 13–14.

13. Which building is located at (5, 6)?

14. What is the distance between Kip's Pizza and the bank?



Lesson Check



1. Which ordered pair describes the location of the playground?
(A) (2, 4) (C) (3, 1)
(B) (4, 2) (D) (1, 3)
2. What is the distance between the school and the library?
(A) 5 units (C) 7 units
(B) 6 units (D) 9 units

Spiral Review

3. What is the value of the underlined digit?
(Lesson 1.2)

45,769,331

- (A) 60
(B) 6,000
(C) 60,000
(D) 70,000
5. 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? (Lesson 2.6)
- (A) 20 hours
(B) 25 hours
(C) 30 hours
(D) 35 hours

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

(Lesson 1.7)

- (A) \$305
(B) \$306
(C) \$350
(D) \$360
6. Molly uses 192 beads to make a bracelet and a necklace. It takes 5 times as many beads to make a necklace than it does to make a bracelet. How many beads are used to make the necklace? (Lesson 2.9)
- (A) 32
(B) 37
(C) 160
(D) 165

Name _____

Graph Data

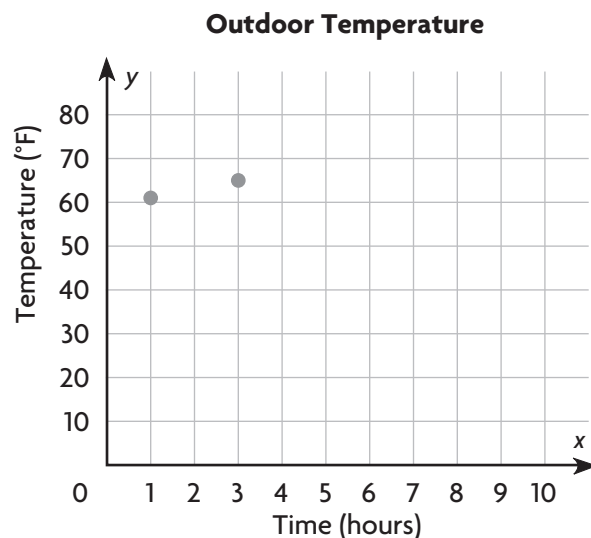
Graph the data on the coordinate grid.

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

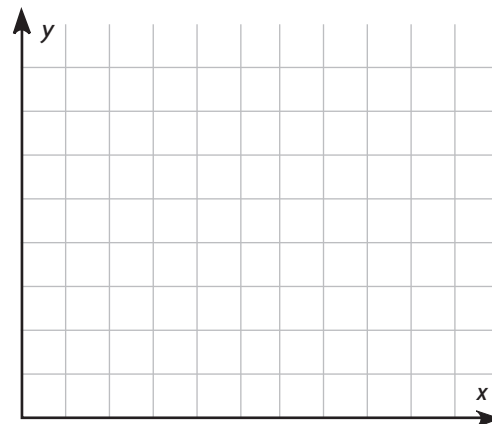


2.

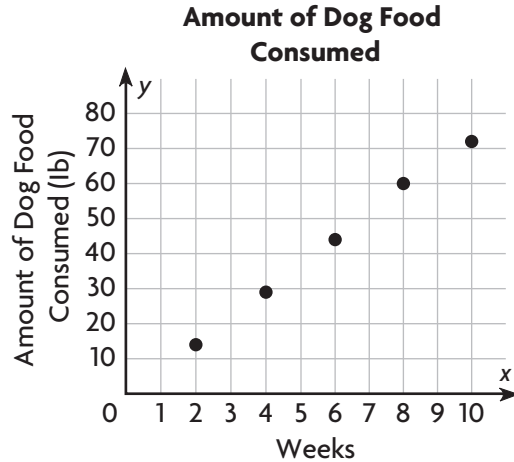
Windows Repaired					
Day	1	2	3	4	5
Total Number Repaired	14	30	45	63	79

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



1. About how many weeks did it take for the dog to consume 45 pounds of food?
(A) 4 weeks (C) 6 weeks
(B) 5 weeks (D) 7 weeks
2. By the end of Week 8, how much food had the dog consumed?
(A) 29 pounds (C) 60 pounds
(B) 44 pounds (D) 72 pounds

Spiral Review

3. A restaurant chain ordered 3,945 pounds of rice in 20-pound bags. About how many 20-pound bags of rice did the chain order? (Lesson 2.5)
(A) 4,000
(B) 2,000
(C) 200
(D) 20
4. 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? (Lesson 2.9)
(A) 742
(B) 804
(C) 8,904
(D) 9,634
5. Timothy 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 Timothy need? (Lesson 6.1)
(A) $\frac{1}{5}$ cup
(B) $\frac{1}{3}$ cup
(C) $\frac{2}{5}$ cup
(D) $\frac{5}{6}$ cup
6. Jessie bought 3 T-shirts for \$6 each and 4 T-shirts for \$5 each. Which expression can you use to describe what Jessie bought? (Lesson 1.10)
(A) $3 + 6 + 4 + 5$
(B) $(3 + 6) \times (4 + 5)$
(C) $(3 \times 6) + (4 \times 5)$
(D) $(3 \times 6) \times (4 \times 5)$

Name _____

Line Graphs

Use the table for 1–5.

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	11	16	27	31	38	41

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

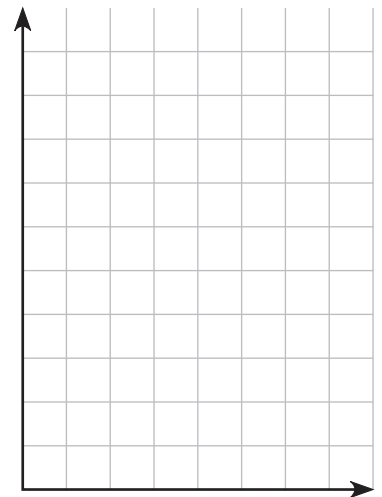
(10, 8);

- What scale would be appropriate to graph the data?

- What interval would be appropriate to graph the data?

- Make a line graph of the data.

- Use the graph to find the difference in temperature between 11 A.M. and 1 P.M.

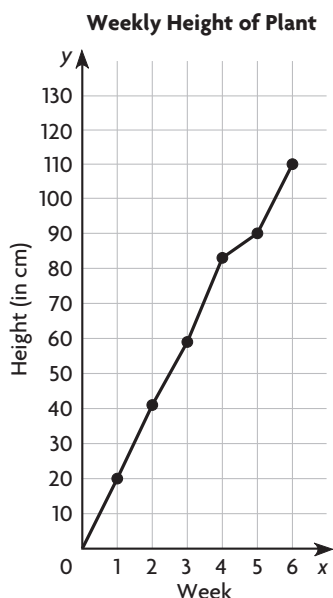


Problem Solving

- Between which two hours did the least change in temperature occur?

- What was the change in temperature between 12 noon and 4 P.M.?

Lesson Check



- How many centimeters did the plant grow in the first three weeks?
 - (A) 20 cm
 - (B) 41 cm
 - (C) 59 cm
 - (D) 83 cm
- Between which two weeks did the plant grow the least?
 - (A) Weeks 2 and 3
 - (B) Weeks 3 and 4
 - (C) Weeks 4 and 5
 - (D) Weeks 5 and 6

Spiral Review

- Which shows the correct use of the Distributive Property to find the product of 7×63 ? (Lesson 1.10)
 - (A) $(7 \times 60) \times (7 \times 3)$
 - (B) $(7 + 60) \times (7 + 3)$
 - (C) $(7 \times 60) + (7 \times 3)$
 - (D) $7 + (60 \times 3)$
- Ali multiplies 3 numbers using the expressions $a \times (b \times c)$ and $(a \times b) \times c$. Which property of multiplication does Ali use? (Lesson 1.3)
 - (A) Associative Property of Multiplication
 - (B) Commutative Property of Multiplication
 - (C) Distributive Property of Multiplication
 - (D) Identity Property of Multiplication
- A student athlete runs $3\frac{1}{3}$ miles in 30 minutes. A professional runner can run $1\frac{1}{4}$ times as far in 30 minutes. How far can the professional runner run in 30 minutes? (Lesson 7.9)
 - (A) $3\frac{1}{12}$ miles
 - (B) $4\frac{1}{6}$ miles
 - (C) $4\frac{2}{7}$ miles
 - (D) $4\frac{7}{12}$ miles
- A recipe for salad dressing calls for $\frac{1}{4}$ cup of vinegar. You have 4 cups of vinegar. How many batches of salad dressing could you make with the vinegar? (Lesson 8.4)
 - (A) 1
 - (B) 4
 - (C) 8
 - (D) 16