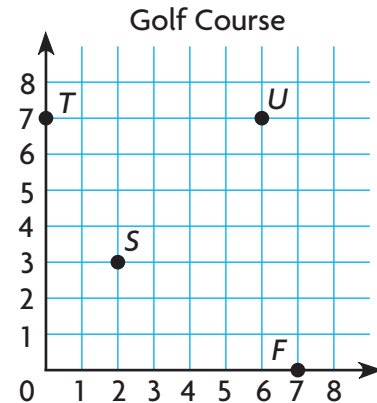


Chapter Review

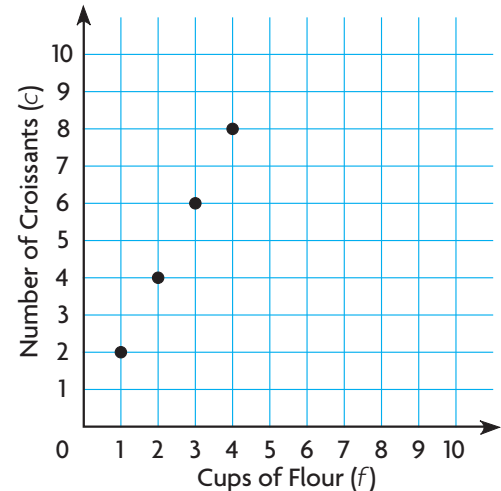
1. The letters on the coordinate plane represent the locations of the first four holes on a golf course. Which of the following accurately describes the location of a hole? Mark all that apply.

- (A) Hole U is 4 units left and 4 units down from hole S .
 (B) Hole F is 1 unit right and 7 units down from hole U .
 (C) Hole T is 2 units left and 4 units up from hole S .
 (D) Hole S is 3 units left and 5 units up from hole F .



2. The graph shows the amount of flour it takes to make croissants. Which rule describes the pattern on the graph?

- (A) $c = f + 1$
 (B) $f = c + 1$
 (C) $c = 2f$
 (D) $f = 2c$



3. Steve uses the rule $l = 8s$ to determine the number of legs 5 spiders have. What is the value of $\blacksquare$?

Spiders	s	2	3	4	5
Legs	l	16	24	32	$\blacksquare$

- (A) 8
 (B) 40
 (C) 10
 (D) 14

4. Portia made a table to figure out how much she earned selling T-shirts.

Day	1	2	3	4	5
Number of T-shirts sold	5	10	15	20	25
Amount earned (\$)	20	40	60	80	?

For problems 4a–4b, use the table to choose the correct values to describe how one sequence is related to the other.

4a. The unknown number in Day 5 is

- 90
- 100
- 120

4b. The rule that describes how the number of T-shirts sold relates to the amount earned is

- add 15
- multiply by 5
- multiply by 4

5. Jawan made a table to figure out how much he earns at his job.

Job Earnings						
Week	1	2	3	4	...	6
Hours Worked	6	12	18	24	...	36
Amount Earned (\$)	54	108	162	216	...	?

Part A

Write a rule that relates the amount Jawan earns to the number of hours worked. Explain how you can check your rule.

Part B

How much does he earn from his job in Week 6?

\$ _____

Name _____

6. Look for a pattern.



Figure 1

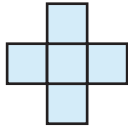


Figure 2

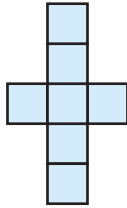


Figure 3

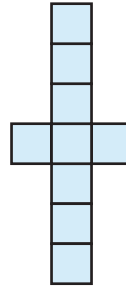


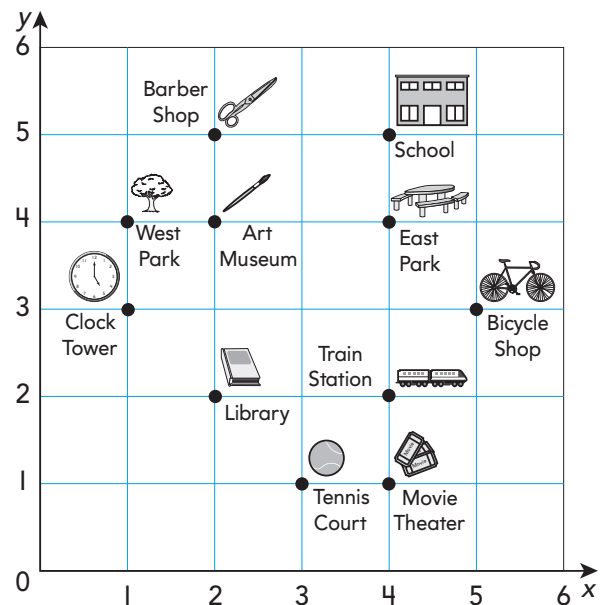
Figure 4

What is the rule? _____

How many squares will there be in Figure 5? _____ squares

7. Lindsey made a map of her town. Match each location below with the correct ordered pair that marks it on the coordinate plane. Not every ordered pair will be used.

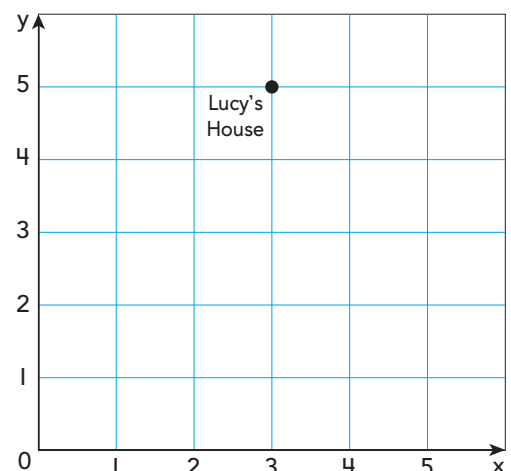
- | | |
|-----------------|----------|
| | • (4, 4) |
| Clock Tower • | • (4, 1) |
| | • (1, 3) |
| Art Museum • | • (5, 4) |
| | • (4, 5) |
| East Park • | • (3, 1) |
| | • (2, 4) |
| Movie Theater • | • (1, 4) |
| | • (4, 2) |



8. Lucy's house is located at the point shown on the coordinate plane. Ainsley's house is located 2 units right and 3 units down from Lucy's house. Plot a point on the coordinate plane to represent the location of Ainsley's house.

What ordered pair represents the location of Lucy's house?

What ordered pair represents the location of Ainsley's house?



The table shows the relationship between the number of eggs and the number of muffins.

Batches	1	2	3	4	5
Number of Eggs	2	4	6	8	10
Muffins	12	24	36	48	60

Use the table for problems 9 and 10.

9. Enter a number to complete the sentence.

Multiply the number of eggs by _____ to find the number of muffins.

10. Suppose the number of eggs is changed to 3 eggs for each batch of 12 muffins, and 48 eggs are used. How many batches and how many muffins will be made?

_____ batches and _____ muffins

11. The table shows how much a puppy weighs from 1 month old to 5 months old.

Puppy's Weight					
Age (in months)	1	2	3	4	5
Weight (in pounds)	12	18	23	31	34

What ordered pairs would you plot to show the puppy's weight on a coordinate plane? How do you think the ordered pairs would be different if the puppy's weight was measured every week instead of every month? Explain your reasoning.

Name _____

12. Randy is training for a race. She makes a table that shows how long it takes her to run different distances.

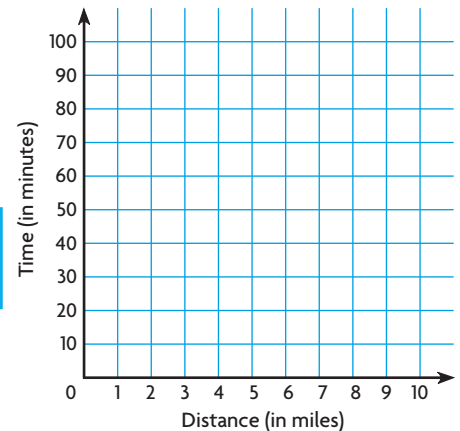
Running Time and Distance				
Distance (in miles)	1	2	3	4
Time (in minutes)	10	20	30	40

Part A

Write the number pairs as ordered pairs. Then write the rule to describe how the number pairs are related.

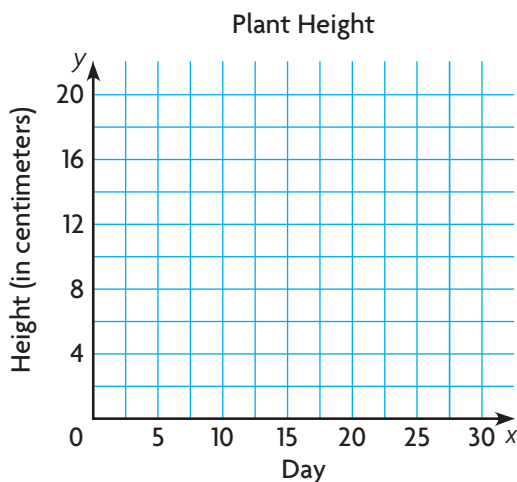
Part B

Graph the ordered pairs on the coordinate plane.



- 13.

Plant Height						
Day	5	10	15	20	25	30
Height (in cm)	1	3	8	12	16	19



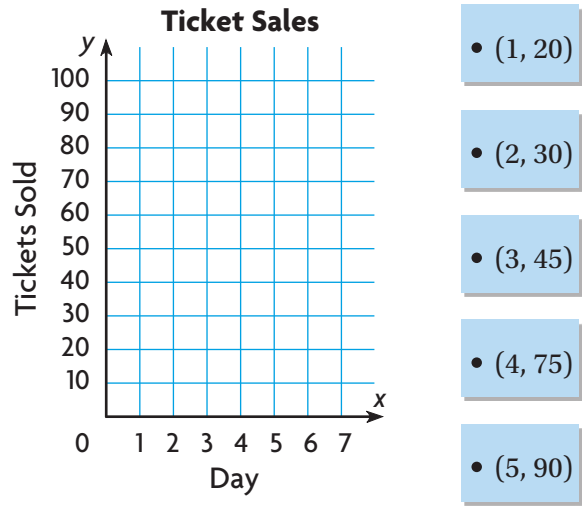
- a. Write the ordered pair for each point.

- b. How would the ordered pairs be different if the heights of the plants were measured every 6 days for 30 days instead of every 5 days?

14. The table shows the total number of tickets sold for the school play each day for 5 days.

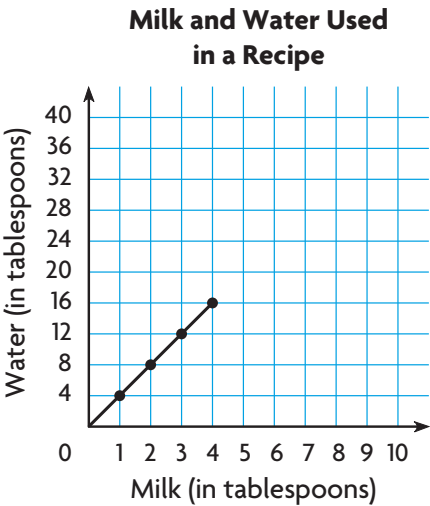
Ticket Sales					
Day	1	2	3	4	5
Tickets Sold	20	30	45	75	90

Graph the ordered pairs from the tiles on the coordinate plane.



15. The graph shows the relationship between the amounts of milk and water used in a recipe. Determine a rule that relates the amount of milk to the amount of water by writing the correct term or value from the tiles in each blank.

Subtract	Add
Multiply	Divide
1	2
4	$\frac{1}{2}$
	$\frac{1}{4}$



Rule: the amount of milk by .

16. Which equation describes the pattern in the table below?

Input	w	2	4	6	8
Output	c	8	16	24	32

- Ⓐ $c = w \times 3$ Ⓒ $c = w + 4$
- Ⓑ $c = w \times 4$ Ⓓ $w = c \times 3$