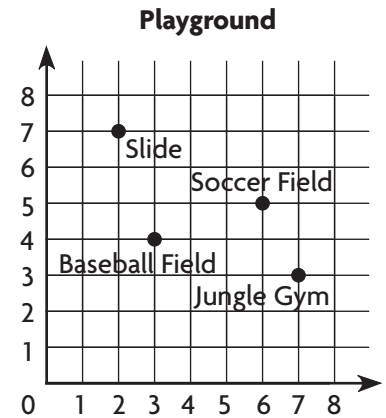**1.** The coordinate grid represents a playground. Which of the following accurately describes the location of a playground area? Mark all that apply.

Playground

(A) The slide is 2 units left and 4 units up from the soccer field.

(B) The baseball field is 1 unit left and 3 units down from the slide.

(C) The jungle gym is 4 units right and 1 unit down from the baseball field.

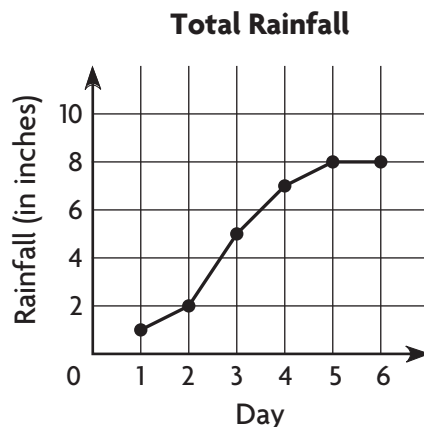(D) The soccer field is 3 units right and 1 unit up from the baseball field.

2. Sam filled bags with mixed nuts. The weights of the bags are $\frac{1}{8}$-lb, $\frac{1}{4}$-lb, $\frac{1}{8}$-lb, $\frac{1}{2}$-lb, $\frac{1}{8}$-lb, $\frac{1}{4}$-lb, $\frac{1}{8}$-lb, $\frac{1}{2}$-lb, $\frac{1}{8}$-lb, $\frac{1}{4}$-lb, $\frac{1}{8}$-lb, $\frac{1}{2}$-lb, $\frac{1}{8}$-lb, $\frac{1}{8}$-lb, $\frac{1}{4}$-lb, and $\frac{1}{2}$-lb. Organize the information in a line plot.

What is the average weight of the bags?

_____ pound(s)

3. For 6 days in a row, Haruki recorded the total amount of rain collected in a rain gauge in her yard. The line graph shows her data. Between which two days did the amount of rain collected increase the least?

Total Rainfall

between Day [ ] and Day [ ]

GO ON

4. The table shows two sequences of numbers.

Day	1	2	3	4	5
Number of CDs Sold	2	4	6	8	10
Amount Earned ($)	10	20	30	40	?

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

4a. The unknown number in Day 5 is

50
60
75

.

4b. The rule that describes how the number of CDs sold

relates to the amount earned is

add 8
multiply by 5
multiply by 10

.

5. Jamal made a table to figure out how much flour he uses to make muffins.

Flour in Muffins

Batches	1	2	3	4	...	6
Number of Ounces of Flour	8	16	24	32	...	48
Number of Muffins	16	32	48	64	...	?

Part A

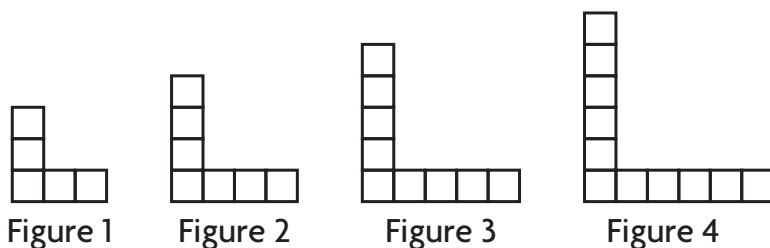Write a rule that relates the number of muffins to the number of ounces of flour. Explain how you can check your rule.

Part B

How many muffins will Jamal make if he makes 6 batches?

_____ muffins

GO ON

6. Look for a pattern.

Figure 1   Figure 2   Figure 3   Figure 4
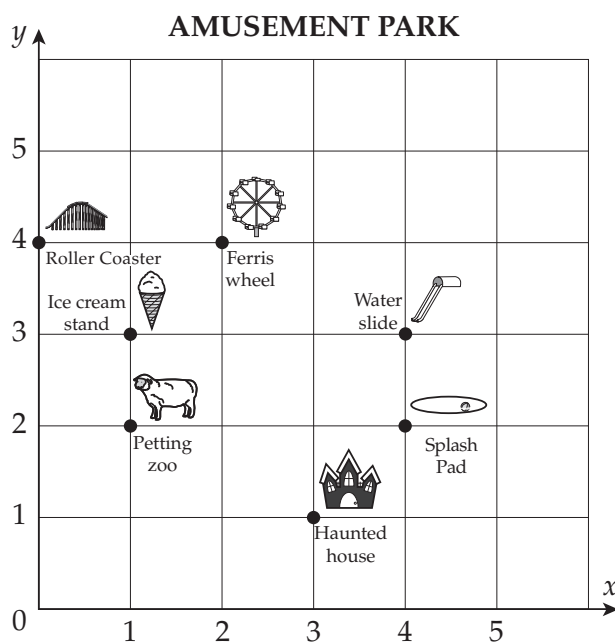
What is the rule? _____

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

7. The map shows the locations of attractions at an amusement park. Match each location below with the correct ordered pair that marks it on the map. Not every ordered pair will be used.
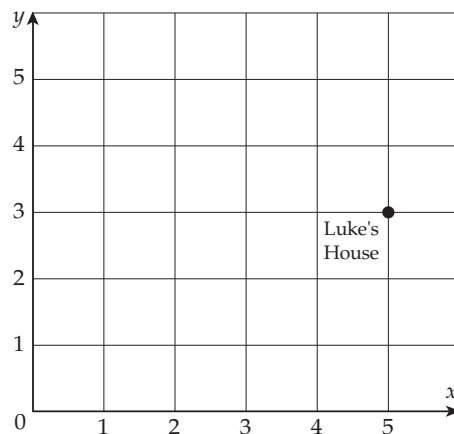
Ferris Wheel •

Splash Pad •

Roller Coaster •

Petting Zoo •

Water Slide •

• (0, 4)

• (2, 4)

• (4, 3)

• (4, 0)

• (4, 2)

• (3, 4)

• (1, 2)

AMUSEMENT PARK

Roller Coaster   Ferris wheel
Ice cream stand   Water slide
Petting zoo   Splash Pad
Haunted house

8. Luke's house is located at the point shown on the coordinate grid. Fahim's house is located 4 units left and 2 units up from Luke's house. Plot a point on the coordinate grid to represent the location of Fahim's house.

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

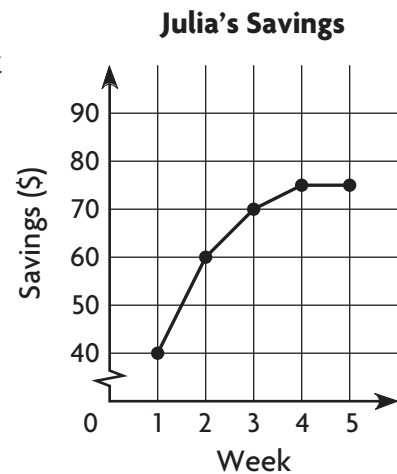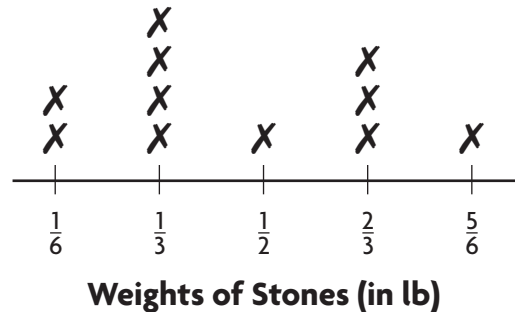What ordered pair represents the location of Fahim's house?

Luke's House

GO ON

9. Julia saves some of the money she earns from babysitting. The line graph shows the amount in Julia's savings account for the first 5 weeks of the year.

For numbers 9a–9b, select True or False for each statement.

9a. Julia's savings increased from $40 to $80 over the 5-week period. ○ True ○ False

9b. The greatest increase in Julia's savings occurred from Week 1 to Week 2. ○ True ○ False

Julia's Savings

10. The line plot shows the weights of stones found in a stream. What is the average weight of the stones? Show your work.

Weights of Stones (in lb)

11. The table shows the height of a hot air balloon from 1 minute to 5 minutes.

Height of Hot Air Balloon					
Time (in minutes)	1	2	3	4	5
Height (in feet)	35	60	92	120	175

What ordered pairs would you plot to show the data on a coordinate grid? How do you think the ordered pairs would be different if the height of the balloon was measured every 15 seconds instead of every minute? Explain your reasoning.

GO ON

12. The International Space Station circles, or orbits, Earth many times each day. The chart records the number of orbits over a 4-day period.
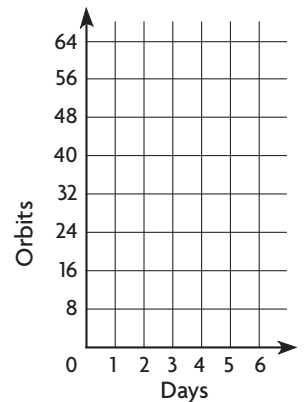
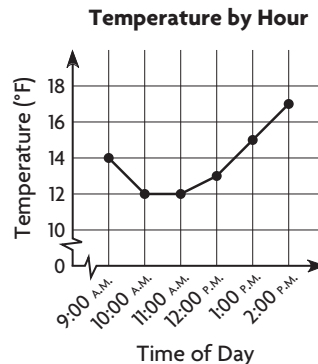| Days	1	2	3	4
Number of Orbits	16	32	48	64

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. Edwin recorded the temperature, in degrees Fahrenheit, every hour for 6 hours. He used this data to make a line graph.

Temperature by Hour

Time of Day

For numbers 13a–13c, select True or False for each statement.

13a. The greatest temperature is at 2:00 P.M. ○ True ○ False

13b. Beginning at noon, the temperature increased by 2°F each hour. ○ True ○ False

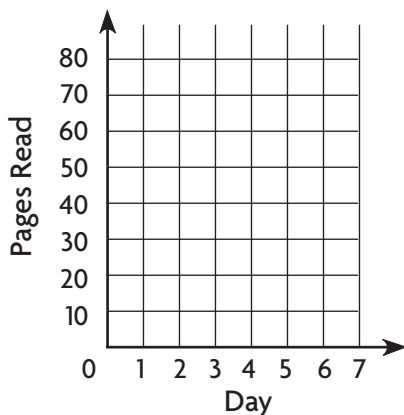13c. The temperature was the same at 11:00 A.M. and 12:00 P.M. ○ True ○ False

GO ON

14. The table shows the total number of pages of a book that Ra has read each day for 5 days.

Days	1	2	3	4	5
Pages Read	15	20	35	45	70

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

- (1, 15)

- (2, 20)

- (3, 35)

- (4, 45)

- (5, 70)

15. The graph shows the relationship between tablespoons and teaspoons. Determine a rule that relates the number of tablespoons to the number of teaspoons by writing the correct term or value from the tiles in each blank.
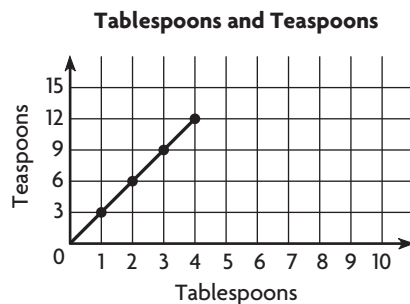
Subtract	Add

Multiply	Divide

1	2	3	$\frac{1}{2}$	$\frac{1}{3}$

Tablespoons and Teaspoons

Rule: _____ the number of tablespoons

by _____.

16. Emily is buying a new mountain bike on layaway for $324. If she pays $54 each week, how many weeks will it take Emily to pay for the mountain bike? How can making a table help you solve the problem?

STOP