5th Grade

Mathematics

2 Week Instructional Student Packet

Lessons 27 – Finding Volume

Lesson 29 - Locating and Plotting on a Coordinate Plane

Lesson 30 - Problem Solving with Coordinate Planes



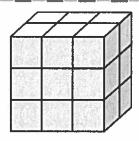
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Pack It, Ship It

Directions: Answer each question.

Percy has a box he wants to fill with cubes. He needs to pack the box tight so that the cubes will not move when he ships it. How can Percy figure out how many cubes will fit inside?



What is the area of the base of the box? ______

Show your work.

- 2 How many layers high is the box?

Draw a sketch and write an equation to show your work.

Now did you use the area of the base and the height of the box to determine the volume? Explain your reasoning.

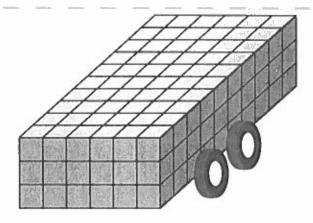
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LESSON 27

Clarisse's Comics

Directions: Answer each question. Show your work on a separate sheet of paper.

Clarisse needs to move her collection of comic books from her home to her new store, Clarisse's Comics. She wants to fill a trailer with square boxes of comic books. How many boxes will fit inside the trailer at one time?



- What is the area of the base of the trailer?
- Mow many boxes will fit inside the trailer? Write your equation and solution.
- How did you use the area of the base and the height of the trailer to determine the volume? Explain your reasoning.

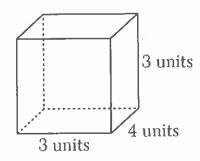
4 A new trailer was brought to Clarisse's house. The length and the width are the same, but the height is 5 units. What is the volume of this trailer?



Name:	Date:

Quick Check

Directions: Determine if each statement is true or false. Choose the correct answer.

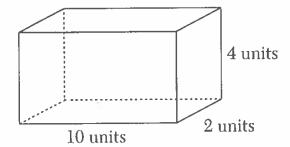


- 1 The base of the prism is 7 square units.
 - se of the phone is a square amos
 - True False
 - The volume of the prism is 48 cubic units.
 - True
- (False)

- 2 The height of the prism is 12 units.
 - True False
- The volume of the prism is 36 cubic units.
 - True False

Directions: Solve the problem.

(5) What is the volume of the rectangular prism shown below? Show your work. Explain how you found your solution.



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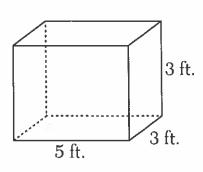
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LESSON 27

Refocus

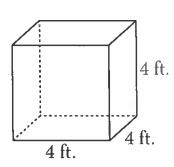
Directions: Find the volume.





Volume = _____

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Volume = ____

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Choose Question 1 or 2. Explain your thinking.

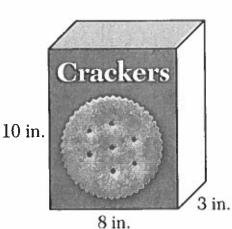
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Independent Practice

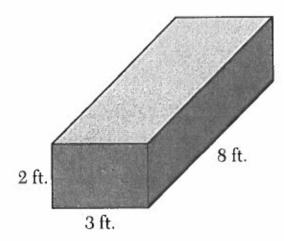
Directions: Find the volume of each rectangular prism.





Volume = ____

2



Volume = _____

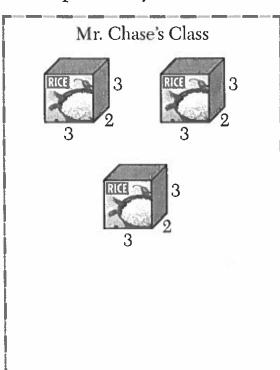
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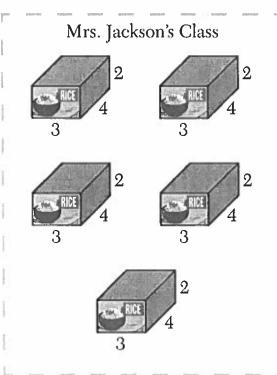
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Math in the

Real World Class Donations

Mr. Chase's and Mrs. Jackson's classes raised money for a local food bank. With the money raised, they each bought bulk-size boxes of rice. Which class donated the most rice by volume? Explain how you know.







Unpack the Problem



Make a Plan



Solution



Look Back and Explain

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Reflection

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0	How do you calcula illustrate your answ	ate the volume of er.	a rectangular pri	ism? Include	a drawing to
	Toppaca a				

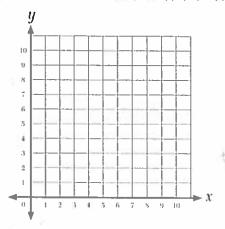
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Shape Up

Directions: Answer each question.

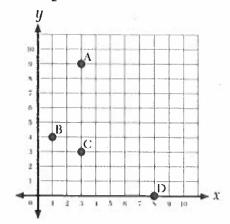
1 Plot the following points on the coordinate plane. Connect the points in the order they are written. Then, connect the last point to the first point.

(6, 2), (10, 2), (10, 4), (10, 6), (8, 6), (4, 6), (2, 6), (2, 4), (2, 2)



2 What shape do the dots form?

3 Find the ordered pair for each point.



A = ____

B =

C = ____

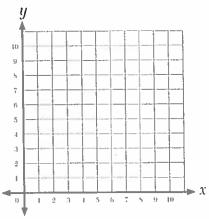
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How were you able to determine the location of a point on the coordinate plane? Explain.

Coordinating Points

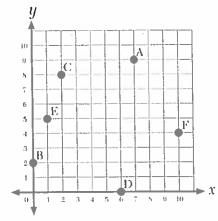
Directions: Answer each question.

1 Plot the following points on the coordinate plane. Label each point with the corresponding letter.



A = (4, 8) B = (1, 9) C = (6, 3) D = (7, 0) E = (5, 2) F = (0, 6)

② Find the ordered pair for each point.

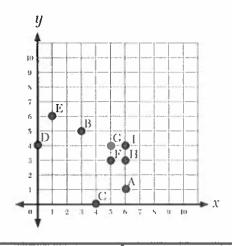


A = ____ B = ___ C = ___ D = ___ E = ___ F = ____

Mow were you able to determine the location of a point on the coordinate plane? Explain.

Quick Check

Directions: Choose the correct answer.

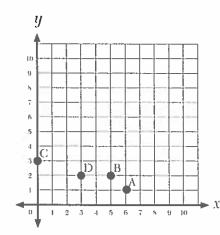


- 1 Which letter represents (3, 5)?
 - A Point A
 - B Point B
 - © Point E
 - Point F

- 2 Which letter represents (0, 4)?
 - A Point A
 - B Point B
 - © Point C
 - Point D

Directions: Answer the question.

3 What is the ordered pair for each letter?



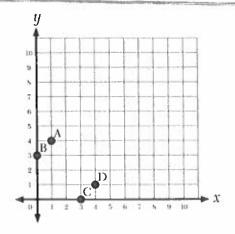
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LESSON 29

Refocus

Directions: Find the points on the coordinate plane.



1 Which point represents (0, 3)?

Solution:

Explain your thinking.

Which point represents (1, 4)?

Solution:

Explain your thinking.

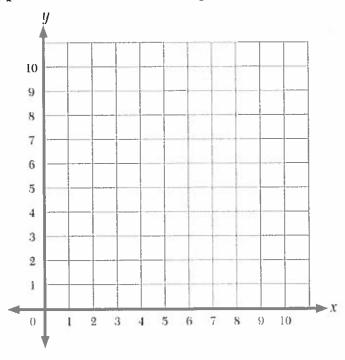
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Independent Practice

Directions: Answer each question.

Plot the following points on the coordinate grid.



Start.	Start.	Start.
(2, 2)	(3, 4)	(5, 7)
(10, 2)	(4, 3)	Stop.
(10, 9)	(8, 3)	Start.
(2, 9)	(9, 4)	(7, 7)
Stop. Connect the points.	Stop. Connect the points.	Stop.

2 What design did you make by connecting the points?

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Date:

Math in the

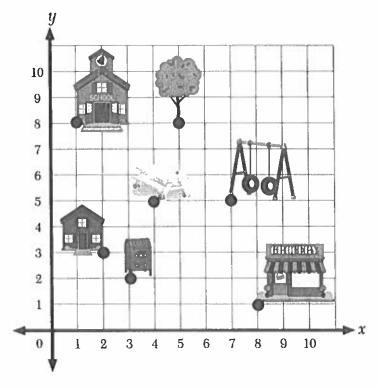
Real World Hidden Treasure

Jim drew a map of his neighborhood to show where he has hidden three treasures. He gave his map and a set of ordered pairs to his friend Paul. Paul must collect all three treasures. Where are the treasures located?

Treasure 1: (5, 8)

Treasure 2: (3, 2)

Treasure 3: (4, 5)



Unpack the Problem

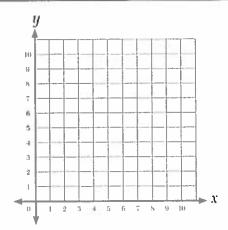
Make a Plan

Solution

Look Back and Explain

Reflection

1 Explain why the order of the coordinates in an ordered pair is important. Explain your answer with an example.



What are the similarities and differences of plotting points on a number line and plotting points on a coordinate grid?

Similarities:

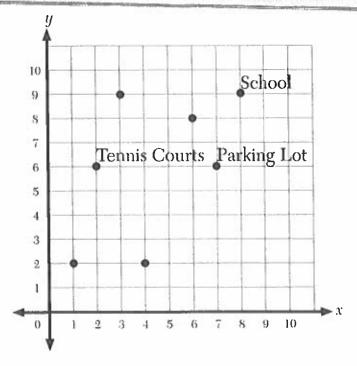
Differences:

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School Campus

Directions: Answer each question.



1 Hector drew a map of his school campus. He forgot to label a few locations on the map. Use the ordered pairs below to graph and label the points on the map.

Locate the soccer field at (4, 2).

Locate the football field at (3, 9).

Locate the playground at (6, 8).

Locate the forest at (1, 2).

What is the ordered pair of the following locations?

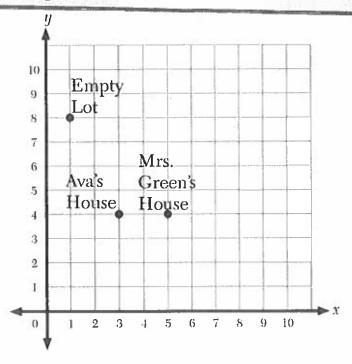
The tennis courts are located at _____. The school is located at _____.

The parking lot is located at _____.

What route would you take to get from the school to the forest?

Meet the Neighbors

Directions: Answer each question.



1 Hattie sketched a map of her new neighborhood. She wants to meet her new neighbors and keep track of where they live. Use the ordered pairs below to label the map.

Linda lives at (3, 8).

The Pendanski family lives at (7, 4).

Lewis lives at (5, 8).

The Bell family lives at (7, 8).

What is the ordered pair of the following locations?

Ava lives at .

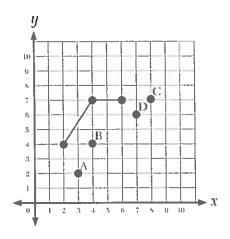
The empty lot is located at _____.

Mrs. Green lives at _____.

3 Explain a route to get from Ava's house to the Bell family's house.

Quick Check

Directions: Choose the correct answer.



- What is the ordered pair for point C?
 - \bigcirc (7, 8)
 - **B** (9, 6)
 - \bigcirc (8, 7)
 - **D** (8, 8)

- 2 What is the ordered pair for point A?
 - (3, 2)
 - B (2, 4)
 - \bigcirc (0, 3)
 - (3, 3)

- 3 What point is located at (7, 6)?
 - \bigcirc A
 - \bigcirc B
 - © C
 - D D

- What point will complete the line segments to create a parallelogram?
 - A A
 - \bigcirc B
 - © (
 - D D

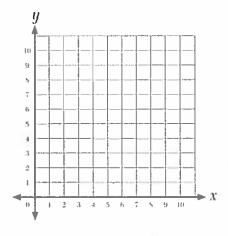
Directions: Answer the question.

6 Explain your reasoning for Question 4.

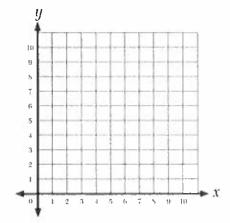


Directions: Answer each question.

① Create a polygon on a geoboard. Draw your polygon on the coordinate grid. Write the ordered pairs for each corner of the polygon.



② Create a different polygon on a geoboard. Draw your polygon on the coordinate grid. Write the ordered pairs for each corner of the polygon.



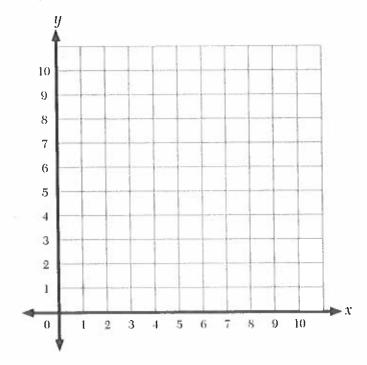
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Independent Practice

Directions: Answer each question.

🕦 Make a map. Plot four locations on the coordinate grid. Label each point. For example, you may label one point School.



What are the ordered pairs for each location?

Point 1: _____ Point 2: ____ Point 3: ____ Point 4: ____

3 Choose two locations. Explain how you would get from one location to the other.

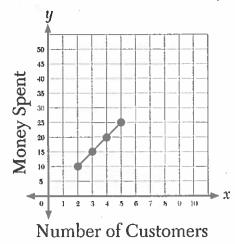
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Math in the

Real World Green Lake Grill

At the Green Lake Grill, the owner has made a graph showing the average amount each customer spends. How much has he determined that each customer spends? If he has 10 people at the restaurant, how much does he think they will spend altogether?



Unpack the Problem

Make a Plan

Solution

Look Back and Explain

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LESSON 30

Reflection

Provide real-world examples in which a coordinate grid can be used to solve a problem.