Week 2: Apr. 27-May 1, 2020 **Name:** _____

This is your assignment check off list, so you can keep your work organized every week. Please check off the appropriate box as you finish your assignments. All ELA assignments can be found on readworks.org and all Math assignments are from your My Math workbooks.

Day	Assignments	Completed	Incomplete
Monday	ELA: Cool to be kind Math: MM 929-932		
Tuesday	ELA: Stargazing Math: MM 935-938		
Wednesday	ELA: Healthy Eating, Healthy Planet Math: MM 941-944		
Thursday	ELA: How to Say What You're Feeling Math: MM 949-951		
Friday	Catch up day. Finish any incomplete work. Write a note to your teacher explaining which assignment was challenging and why? Which assignment was fun and why?		

Complete the check off list. Organize and pin/staple the whole packet together.

Reflection:

Dear teacher,

_____

_____

_____

_____

_____

_____

Sincerely,

_____

Name .....

Classify Quadrilaterals

Lesson 5

ESSENTIAL QUESTION
How does geometry help me solve problems in everyday life?

You can classify quadrilaterals using one or more of the following attributes like congruent sides, parallel sides, and right angles.

Math in My World

Watch

Example 1

Trina cut out polygon mats to use for her travel photos. Use the figures below to determine the missing attribute(s) of each type of quadrilateral.

Quadrilateral

Trapezoid
quadrilateral with exactly _____ pair of opposite sides parallel

Parallelogram
quadrilateral with opposite sides congruent and _____

Rectangle
parallelogram with _____ right angles

Square
parallelogram with _____ sides congruent and _____ right angles

Rhombus
parallelogram with _____ sides congruent

A square has all the attributes of a rectangle and a _____.

Example 2

One side of the Realia building in Madrid, Spain, is shown at the right. Describe the attributes of the quadrilateral. Then classify it based on its attributes.

The quadrilateral has opposite sides _____

and _____.

So, it is a _____.

Guided Practice

1. Describe the attributes of the quadrilateral below. Then classify the quadrilateral based on its attributes.

The opposite sides of the quadrilateral are _____

and _____.

There are _____ right angles.

So, the quadrilateral is a _____.

2. The design below is made up of a repeating quadrilateral. Describe the attributes of the quadrilateral. Then classify the quadrilateral based on its attributes.

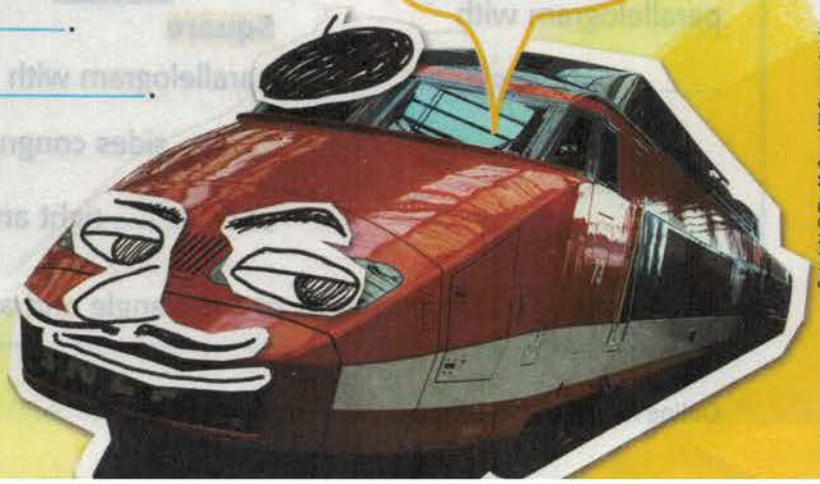
The quadrilateral has _____ congruent sides.

Opposite sides are _____.

So, the quadrilateral is a _____.

Talk MATH

Tell why a square is a special kind of rectangle.

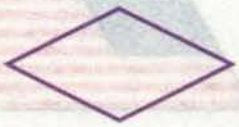


Name _____

Independent Practice

Describe the attributes of each quadrilateral. Then classify the quadrilateral.

3. 

4. 

_____ _____

_____ _____

_____ _____

5. Circle the quadrilateral(s) that have all the attributes of a parallelogram.

rectangle rhombus square trapezoid

6. Circle the quadrilateral(s) that have all the attributes of a rhombus.

rectangle square trapezoid parallelogram

State whether the following statements are *true* or *false*. If *false*, explain why.

7. All parallelograms have opposite sides congruent and parallel. Since rectangles are parallelograms, all rectangles have opposite sides congruent and parallel.

_____

_____

8. All squares have four congruent sides. Since rectangles are squares, all rectangles have four congruent sides.

_____

_____

Problem Solving

9. Mathematical PRACTICE 7 **Identify Structure** Many aircraft display the shape of the American flag as shown below to indicate motion. Classify the quadrilateral.

10. Adena used a quadrilateral in her art design. The quadrilateral has no sides congruent and only one pair of opposite sides parallel. Classify the shape of the quadrilateral she used.

11. Traci planted two tomato gardens. One garden is rectangular. The shape of the second garden has all the attributes of the rectangular garden. In addition, it has four congruent sides. Classify the shape of the second tomato garden.

HOT Problems

12. Mathematical PRACTICE 4 **Model Math** Draw a parallelogram that is neither a square, rhombus, nor rectangle.

My Drawing!

13. **Building on the Essential Question** How do I classify quadrilaterals using their attributes?

Name .....

Hands On
Build Three-Dimensional Figures

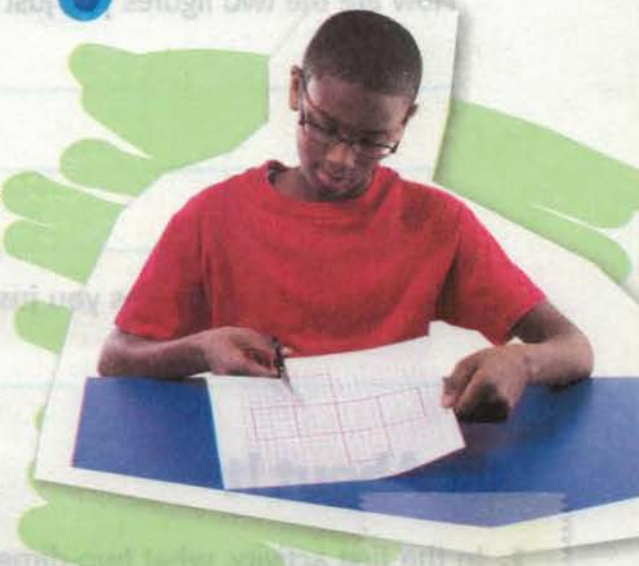
Lesson 6

ESSENTIAL QUESTION
How does geometry help me solve problems in everyday life?

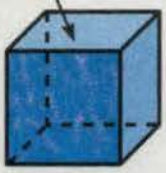
A **three-dimensional figure** has length, width, and height. A **net** is a two-dimensional pattern of a three-dimensional figure. You can use a net to build a three-dimensional figure.

A **cube** is a three-dimensional figure with six faces that are congruent squares. **Congruent figures** have the same size and shape.

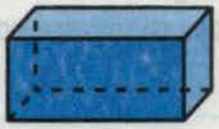
A **rectangular prism** is a three-dimensional figure with six rectangular faces. Opposite faces are parallel and congruent.



A **face** is a flat surface.



Cube

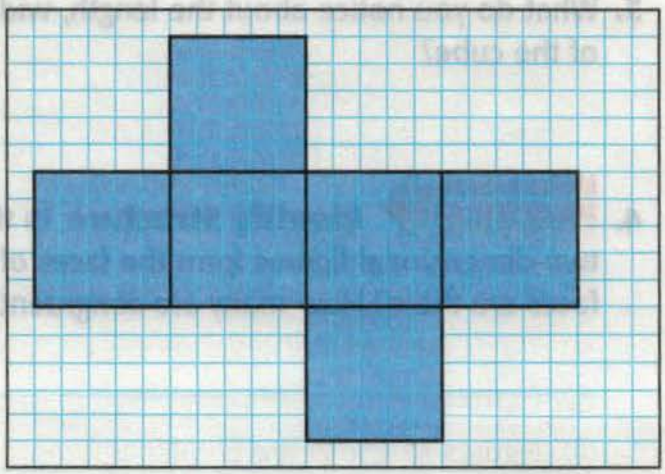


Rectangular Prism

Build It

Tools Watch

1 **Copy the net shown onto grid paper.**



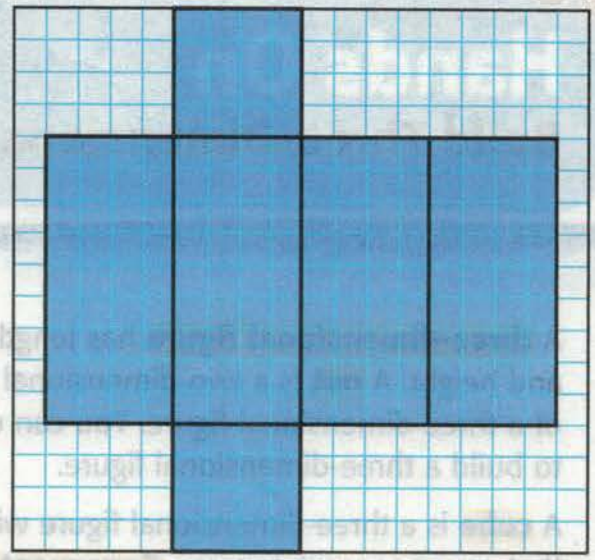
2 **Cut out the net. Fold along the lines to form a three-dimensional figure. What figure did you form?**

_____

Try It

1 **Copy the net shown onto grid paper.**

2 **Cut out the net. Fold along the lines to form a three-dimensional figure. What figure did you form?**



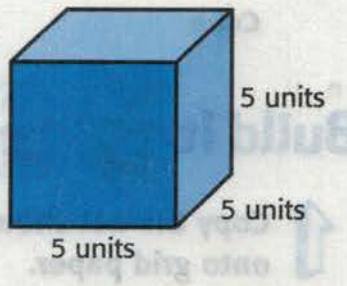
How are the two figures you just built alike?

How are the two figures you just built different?

Talk About It

1. In the first activity, what two-dimensional figure forms the faces of the figure? How many faces are there? How many are congruent?

2. Identify the length, width, and height of the cube you formed in the first activity.



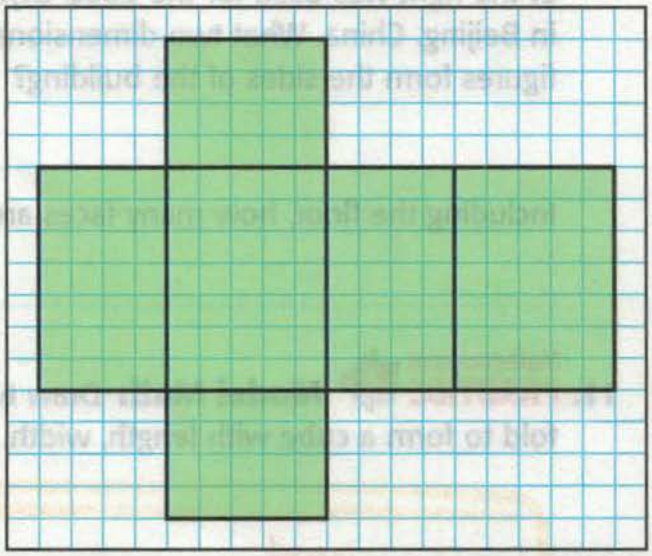
3. What do you notice about the length, width, and height of the cube?

4. Mathematical PRACTICE 7 **Identify Structure** In the second activity, what two-dimensional figures form the faces of the figure? How many faces are there? How many are congruent?

Name _____

Practice It

For Exercises 5 and 6, refer to the grid at the right.



5. Copy the net onto grid paper. Cut out the net and fold along the lines to form a three-dimensional figure. What figure did you form?

_____

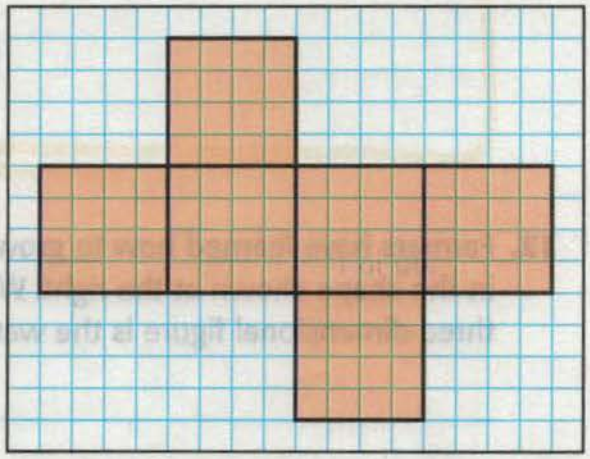
6. What two-dimensional figure forms the faces of the figure?

_____

How many faces are there? _____ Describe the congruent faces.

_____

For Exercises 7–9, refer to the grid at the right.



7. Copy the net onto grid paper. Cut out the net and fold along the lines to form a three-dimensional figure. What figure did you form?

_____

8. What two-dimensional figure forms the faces of the figure?

_____

How many faces are there?

_____

Describe the congruent faces.

_____

9. Identify the length, width, and height of the figure you formed.

_____

Apply It

10. The rectangular prism-shaped building shown at the right was used for the 2008 Olympics in Beijing, China. What two-dimensional figures form the sides of the building?

Including the floor, how many faces are there?

11. Mathematical PRACTICE 4 **Model Math** Draw two different nets that would fold to form a cube with length, width, and height each 4 units.

My Drawing!

12. Farmers have learned how to grow watermelons in the shape shown at the right. What three-dimensional figure is the watermelon?

Write About It

13. How are nets used to build three-dimensional figures?

Name _____

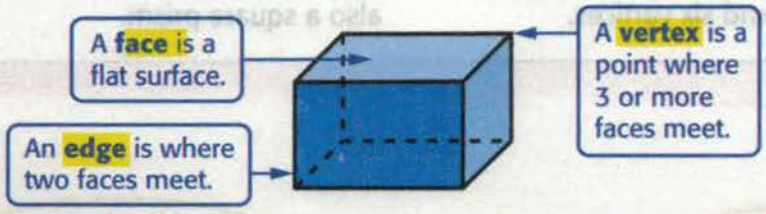
Three-Dimensional Figures

Lesson 7

ESSENTIAL QUESTION

How does geometry help me solve problems in everyday life?

A **three-dimensional figure** has length, width, and height.



Math in My World

Tools Watch Tutor

Describe the faces, edges, and vertices of the figure outlined on the luggage bag. Then identify the shape of the figure.

faces The figure has _____ faces. Each face appears to be a rectangle.

edges There are _____ edges. The opposite edges are parallel and congruent.

vertices The figure has _____ vertices.

Prisms are three-dimensional figures. A **prism** has at least three faces that are rectangles. The top and bottom faces, called the **bases**, are congruent parallel polygons.

The figure above is a rectangular prism. In a **rectangular prism**, the bases are congruent rectangles. A rectangular prism has six rectangular faces, twelve edges, and eight vertices.

Key Concept Prisms

Rectangular Prism

A rectangular prism has six rectangular faces, twelve edges, and eight vertices.

Triangular Prism

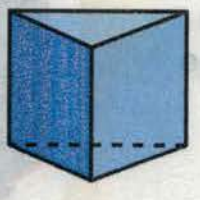
A triangular prism has triangular bases. It has five faces, nine edges, and six vertices.

Cube

A cube has six square faces, twelve edges, and eight vertices. A cube is also a square prism.

Guided Practice

1. Describe the faces, edges, and vertices of the three-dimensional figure. Then identify it.



faces This figure has _____ faces. The _____ bases are congruent and parallel. The other faces are _____.

edges There are _____ edges. The edges that form the vertical sides of the rectangles are parallel and _____.

vertices This figure has _____ vertices.

The figure is a _____.

Talk MATH

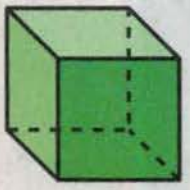
Describe the differences between a triangular prism and a rectangular prism.

Name .....

Independent Practice

Describe the faces, edges, and vertices of each three-dimensional figure. Then identify it.

2.



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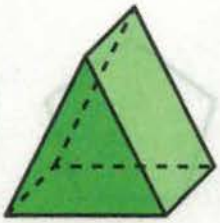

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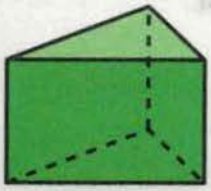

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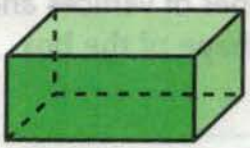
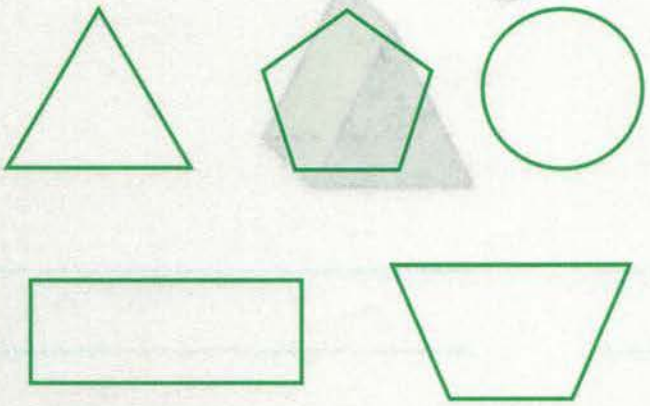


6.

7.

Problem Solving

8. Mathematical PRACTICE 7 **Identify Structure** The Metropolitan Correction Center in Chicago is in the shape of a triangular prism. Circle the two-dimensional figures that make up the faces of the prism.



9. Describe the number of vertices and edges in an unopened cereal box. Identify the shape of the box.

HOT Problems

10. Mathematical PRACTICE 4 **Model Math** What figure is formed if only the height of a cube is increased? Draw the figure to support your answer.

My Drawing!

11. **Building on the Essential Question** Why is it important to know the different properties of three-dimensional figures?

Name .....

Geometry

5.MD.3, 5.MD.3a, 5.MD.3b, 5.MD.4

CCSS

Hands On
Use Models to Find Volume

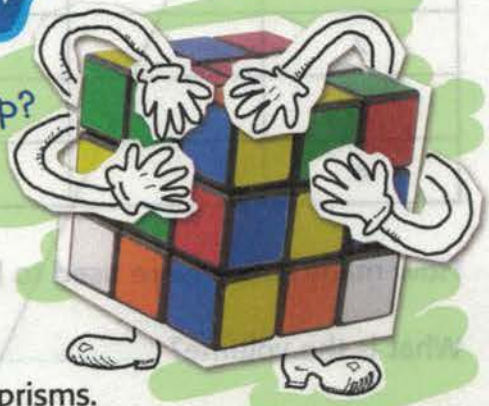
Lesson 8

ESSENTIAL QUESTION

How does geometry help me solve problems in everyday life?

Volume is the amount of space inside a three-dimensional figure. Centimeter cubes can help you find the volume of a prism.

What's Up?



Build It

Tools Watch

Use centimeter cubes to build four different rectangular prisms. Complete the fourth and fifth columns of the table below for each prism.

Prism	Length (cm)	Width (cm)	Height (cm)	Number of Cubes	Volume (cubic cm)
A	1	2	1		
B	2	2	1		
C	3	2	2		
D	4	2	2		

A prism built from cubes has no gaps or overlaps.

A cube with a side length of one unit is called a **unit cube.**
A unit cube has a volume of 1 cubic unit, or 1 unit^3.
A **cubic unit** is a unit for measuring volume.

 1 cubic unit

 2 cubic units

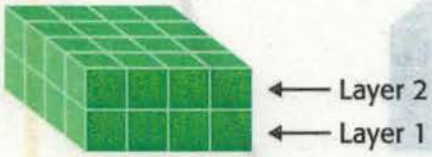
 4 cubic units

So, if you use 12 centimeter cubes to build a rectangular prism, the prism has a volume of _____ cubic centimeters, or _____ cm^3.

Name _____

Practice It

Mathematical PRACTICE 5 **Use Math Tools** **Use centimeter cubes to build the rectangular prism shown.**



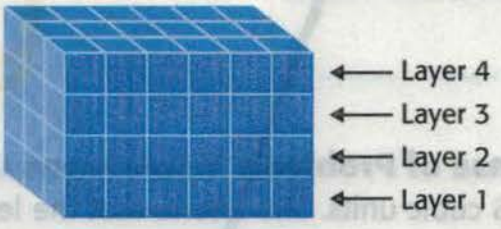
5. Complete the table below.

Layer	Length (cm)	Width (cm)	Height (cm)	Number of Cubes
1				
2				

6. How many cubes were used to build the prism? _____

What is the volume? _____ cm^3

Use centimeter cubes to build the rectangular prism shown.



7. Complete the table below.

Layer	Length (cm)	Width (cm)	Height (cm)	Number of Cubes	Volume (cubic cm)
1					
2					
3					
4					

8. How many cubes were used to build the prism? _____

What is the volume? _____ cm^3