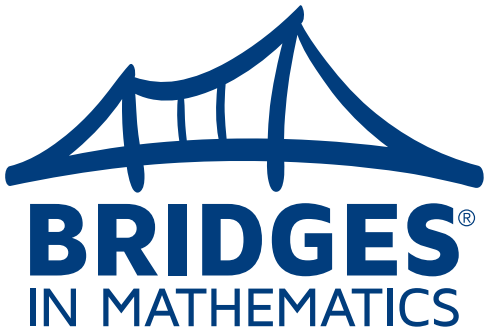


Grade 2 Unit 6 Module 2
Practice Pages for Math at Home

NAME | **DATE**

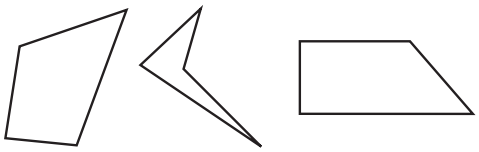
Sorting Quadrilaterals page 1 of 2

Note to Families

This Home Connection Activity involves sorting quadrilaterals. Although some of these shapes are pretty strange-looking, they're all related in that they each have 4 sides and 4 corners. Your child may have many different ideas about how to sort the quadrilaterals on the next page, but if he or she runs out of steam, it's okay for you to mention things like right angles, parallel lines, and symmetry. Have fun!

Cut out the shape cards on the next page. Some of the shapes may look a little strange to you, but they are all quadrilaterals. That is, they all have 4 sides. Look carefully and you'll find that it's true! Work with someone in your family to find as many ways to sort these shapes as possible, and list your ideas below.

"These all have at least 1 line of symmetry."



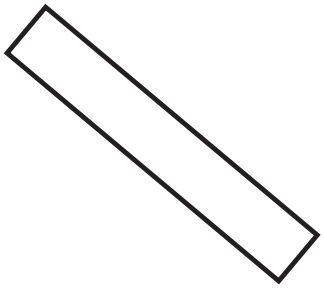
"None of these are symmetrical."

symmetrical

not symmetrical

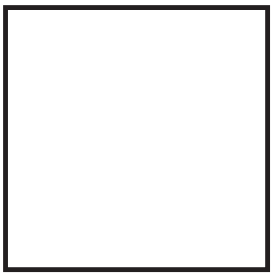
NAME | DATE

Sorting Quadrilaterals page 2 of 2

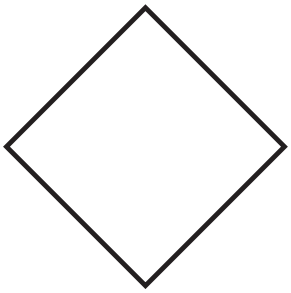


rectangle

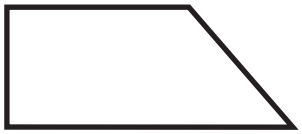
trapezoid



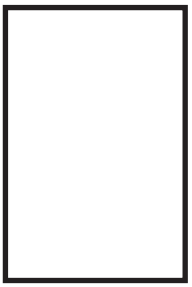
square



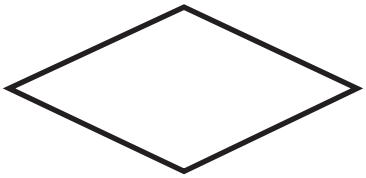
square



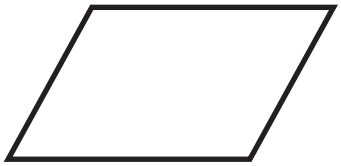
quadrilateral



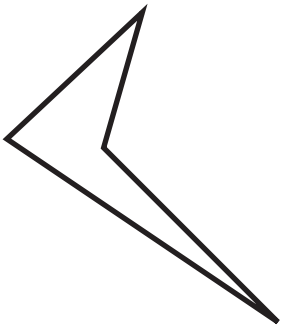
rectangle



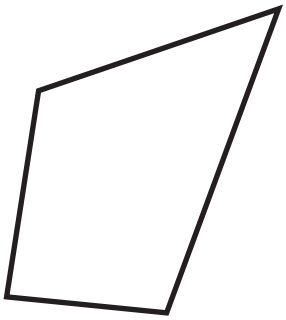
rhombus



parallelogram

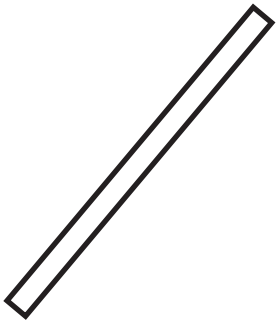


quadrilateral



quadrilateral

rhombus



rectangle

NAME | **DATE**

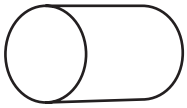
Three-Dimensional Shape Hunt page 1 of 2

Note to Families

We recently started a new unit on geometry. We are using pattern blocks, geoboards, and paper shapes to investigate many different two- and three-dimensional shapes. Besides learning to recognize and name these shapes, we'll explore how they're alike and different and what happens when we cut them up, put them together, and move them around by sliding, turning, and flipping them. We'll learn how to measure the area of some of them, and how to use others to create symmetrical designs. We'll also consider the shapes that are all around us, both human-made and those occuring in nature. This assignment reinforces what we are learning about geometry.

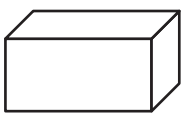
Have you ever thought about why things are the shape they are? Ever wondered why a cup is round and the rooms in most houses are square or rectangular instead of round? Why dice and ice are cube-shaped and why we eat ice cream out of cones instead of pyramids? Shapes are fun to find and fun to think about! This week, you're going to go on a three-dimensional shape hunt. All you have to do is search around your house for things that are shaped like cubes, spheres, cylinders, and rectangular prisms (boxes), and list them below. Happy hunting!

Here are some of things we found that are cylindrical:

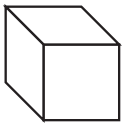


Here are some of things we found that are spherical:

Here are some of the things we found that are shaped like rectangular prisms:



Here are some of the things we found that are shaped like cubes:

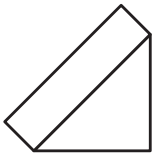


(continued on next page)

NAME | **DATE**

Three-Dimensional Shape Hunt page 2 of 2

Note to Families



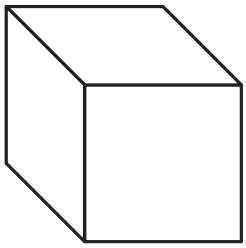
This exercise asks your child to count and sketch the faces of two different three-dimensional shapes. "Face" is the term mathematicians use for a flat surface on a three-dimensional shape. The triangular prism pictured to the left has 5 faces: 2 triangles and 3 rectangles. Your child will need a cube and a rectangular prism to do this exercise. One of a pair of dice and a cereal box would be great.

Materials

- Three-Dimensional Shape Hunt, page 2
- a cube, such as one of a pair of dice
- a rectangular prism, such as a cereal box

Instructions

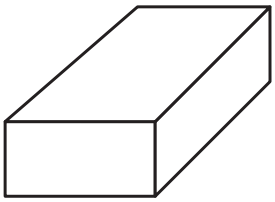
Take a good look at some of the shapes you found to answer the following questions.



How many faces does your cube have? _____

Are they all the same shape? _____

Make a sketch of each of the cube's faces right here:



How many faces does your rectangular prism have? _____

What shape(s) are they? _____

Please sketch each of the rectangular prism's faces here:

Answer Keys

NAME | DATE

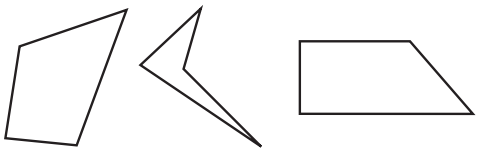
Sorting Quadrilaterals page 1 of 2

Note to Families

This Home Connection Activity involves sorting quadrilaterals. Although some of these shapes are pretty strange-looking, they're all related in that they each have 4 sides and 4 corners. Your child may have many different ideas about how to sort the quadrilaterals on the next page, but if he or she runs out of steam, it's okay for you to mention things like right angles, parallel lines, and symmetry. Have fun!

Cut out the shape cards on the next page. Some of the shapes may look a little strange to you, but they are all quadrilaterals. That is, they all have 4 sides. Look carefully and you'll find that it's true! Work with someone in your family to find as many ways to sort these shapes as possible, and list your ideas below.

"These all have at least 1 line of symmetry."



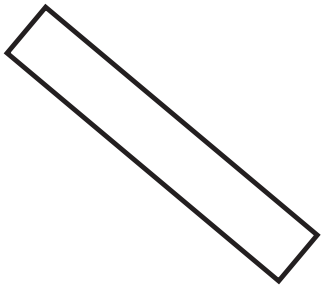
"None of these are symmetrical."

symmetrical

not symmetrical

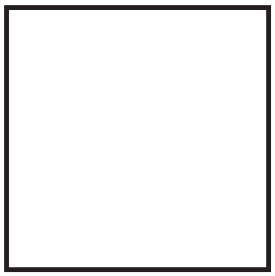
NAME | DATE

Sorting Quadrilaterals page 2 of 2

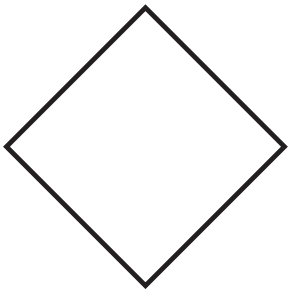


rectangle

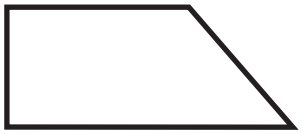
trapezoid



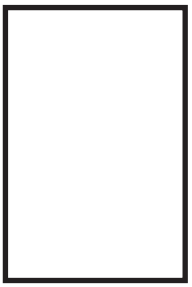
square



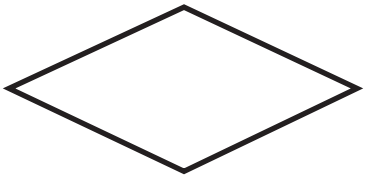
square



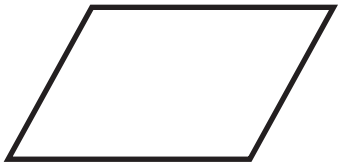
quadrilateral



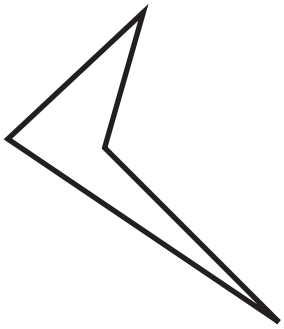
rectangle



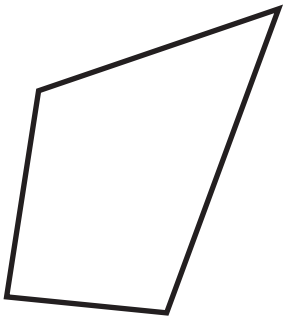
rhombus



parallelogram

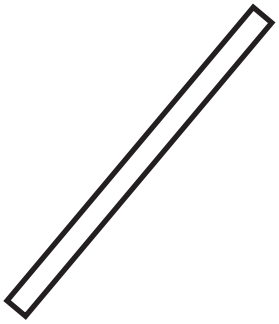


quadrilateral



quadrilateral

rhombus



rectangle

NAME | DATE

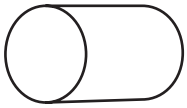
Three-Dimensional Shape Hunt page 1 of 2

Note to Families

We recently started a new unit on geometry. We are using pattern blocks, geoboards, and paper shapes to investigate many different two- and three-dimensional shapes. Besides learning to recognize and name these shapes, we'll explore how they're alike and different and what happens when we cut them up, put them together, and move them around by sliding, turning, and flipping them. We'll learn how to measure the area of some of them, and how to use others to create symmetrical designs. We'll also consider the shapes that are all around us, both human-made and those occuring in nature. This assignment reinforces what we are learning about geometry.

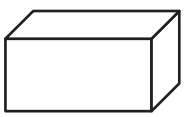
Have you ever thought about why things are the shape they are? Ever wondered why a cup is round and the rooms in most houses are square or rectangular instead of round? Why dice and ice are cube-shaped and why we eat ice cream out of cones instead of pyramids? Shapes are fun to find and fun to think about! This week, you're going to go on a three-dimensional shape hunt. All you have to do is search around your house for things that are shaped like cubes, spheres, cylinders, and rectangular prisms (boxes), and list them below. Happy hunting!

Here are some of things we found that are cylindrical:

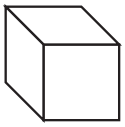


Here are some of things we found that are spherical:

Here are some of the things we found that are shaped like rectangular prisms:



Here are some of the things we found that are shaped like cubes:

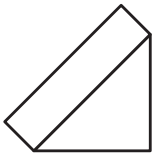


(continued on next page)

NAME | DATE

Three-Dimensional Shape Hunt page 2 of 2

Note to Families



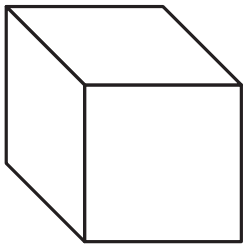
This exercise asks your child to count and sketch the faces of two different three-dimensional shapes. "Face" is the term mathematicians use for a flat surface on a three-dimensional shape. The triangular prism pictured to the left has 5 faces: 2 triangles and 3 rectangles. Your child will need a cube and a rectangular prism to do this exercise. One of a pair of dice and a cereal box would be great.

Materials

- Three-Dimensional Shape Hunt, page 2
- a cube, such as one of a pair of dice
- a rectangular prism, such as a cereal box

Instructions

Take a good look at some of the shapes you found to answer the following questions.

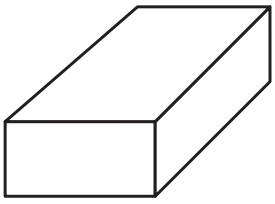


How many faces does your cube have? 6

Are they all the same shape? yes

Make a sketch of each of the cube's faces right here:

Student work will vary.



How many faces does your rectangular prism have? 6

What shape(s) are they? rectangles

Please sketch each of the rectangular prism's faces here:

Student work will vary.