

# Home Connections

## Math Activities

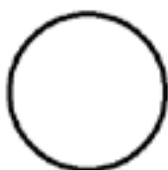
### Grade 1

### Geometry and Spatial Sense

Shapes At Home  
3D Is All Around Me  
How Many Triangles? Let's See!  
Symmetry Memory

# Shapes at Home

1. Help your child to find two-dimensional shapes such as circles, squares, rectangles, and triangles in your home.
2. Have your child trace around the outside of the shape with his or her finger.
3. Ask your child to describe the shape.
4. Ask your child to draw a picture of the shape on the attached sheet.



**Circle**



**Square**



**Rectangle**



**Triangle**

Sides of three-dimensional objects are made up of two-dimensional shapes. For example, a door has rectangular sides.

## Let's Talk About It

- How do you know that your \_\_\_\_\_ (window, door) is a \_\_\_\_\_ (square, rectangle, circle)?

# Shapes at Home



**Circle:**

**Square:**

**Rectangle:**

**Triangle:**

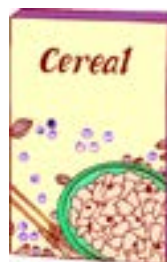
## 3-D Is All Around Me

1. Ask your child to find objects in your home that are like the three-dimensional figures on the attached sheet.
2. Ask your child to draw the object in the attached chart.

### For Example:



Rectangular Prism



The surface of three dimensional figures could be flat or curved. Flat surfaces are called faces.

### Let's Talk About It

- Which objects were hard to match with the 3-D figure on the chart? Why?
- Which figures are alike? Why?

# 3-D Is All Around Me



**Cone**



**Sphere**



**Cube**



**Cylinder**



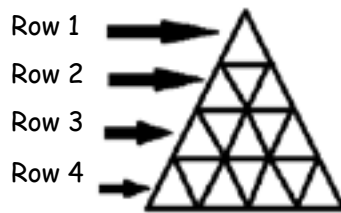
**Rectangular Prism**

## How Many Triangles? Let's See!

1. Have your child use three toothpicks to build a small triangle.



2. Now take turns with your child to add toothpicks to the triangle. Add toothpicks until you have created a large triangle with 4 rows like this one.



3. Ask your child to count the number of small triangles in the large triangle.

Picture-making tasks build understanding of how shapes can be combined to form new shapes.

## Let's Talk About It

- How many triangles can you find?
- Show me a triangle that is not the smallest and not the largest.
- How many triangles would be in the next row of the triangle?



# Symmetry Memory

Number of Players: 2

**Materials:**

\*Attached picture cards  
(Note: each card shows half a symmetrical shape)

**Rules:**

1. Shuffle the cards and place them face down in a row in front of you and your child.
2. Take turns flipping over two cards.
3. If the two cards make a symmetrical shape the player keeps the cards.
4. If the cards do not make a symmetrical shape, turn the cards over again.

The game is finished when all cards have been matched.

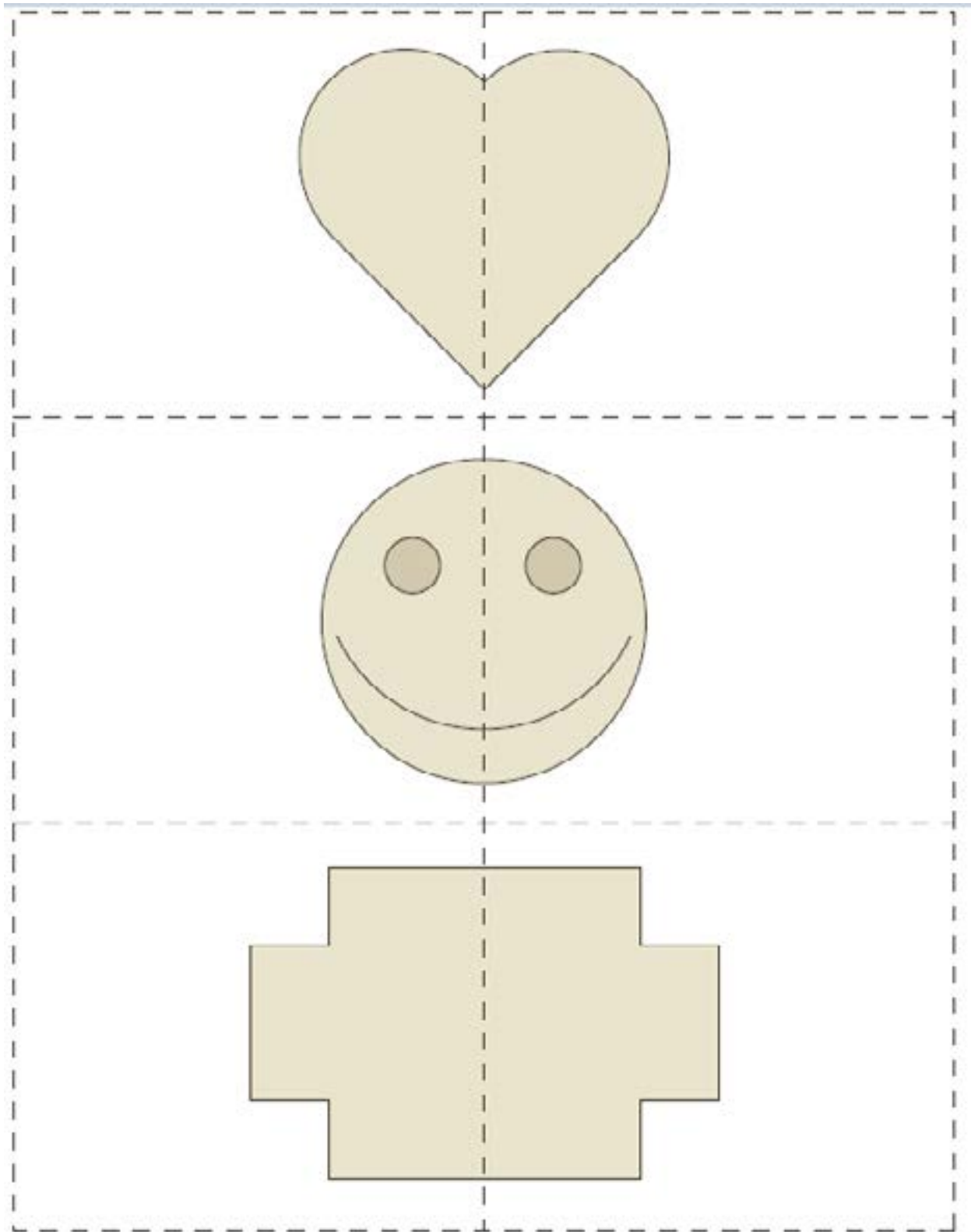
A shape is symmetrical when you fold it in half and the two halves match.



## Let's Talk About It

- How can you check if the cards make a symmetrical shape?
- How many symmetrical shapes can you find in this room? (e.g., window, newspaper, book, shirt) How do you know they are symmetrical?

# Symmetry Memory





# Symmetry Memory

