



GEOMETRY – LEVEL 1: CREATE A JIGSAW PUZZLE

Materials:

Child-safe scissors

Cereal boxes, cardboard, magazine pages, or plain pieces of stiff paper

Crayons, colored pencils

Instructions:

Make a jigsaw puzzle together and then have fun solving it.

Use cereal boxes or any other stiff material that has pictures or patterns on it. Magazine pages can work, though they are a bit flimsy. Alternatively, you can start with a blank piece of stiff paper and draw a simple picture on it.

Cut the paper or cardboard into several large pieces. You now have a jigsaw puzzle!



GEOMETRY – LEVEL 2: SHAPES ON THE FLOOR

Materials:

Papers with colored shapes

Deck of shape cards (colored and black and white)

Instructions:

Place all the shape pages on the floor.

Give your child pieces of information about a shape and challenge them to run to that shape. Depending on your child's level, this activity can be played in various ways. Some variations are listed below from easier to harder:

- Show your child one of the colored shape cards. Have them name the shape or you name it.
- Show your child a black shape from the shape cards. Have them name the shape or you name it.
- You name the shape and your child finds it.
- Describe a shape:
 - Find all shapes without corners
 - Find a shape with 3 corners
 - Find all shapes whose sides are all the same length
 - Find shapes whose angles are all the same (or all different)
 - Find shapes whose opposite sides are the same size

Have some fun and make some “impossible” requests”:

- Find a triangle with 4 corners
- Find a square with sides that have different lengths

Variations:

Reverse the roles: Have your child make up questions and you find the shape. Make a mistake here and there, and give your child the opportunity to tell you what you did wrong.

GEOMETRY - LEVEL 4: FILLING SQUARES WITH SQUARES PUZZLE

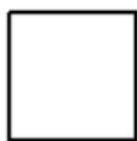
Materials:

Paper with graph-filled squares

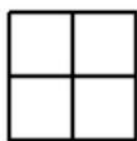
Pencils

Instructions:

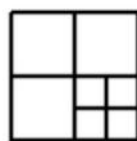
Here is how to fill one large square with 1, 4, or 7 squares:



1



4



7

Find other square counts for filling a large square. Can you do it for 2, 3, 5, 6, 8, 9, or 10 squares?

Questions and discussion points:

When possible, find more than one way to get some of these numbers.

Is every number possible to make or are there numbers that are impossible?