

# DUVAL Math

## Parent Tips

### Analyzing, Comparing, and Composing Shapes

In this module, students build on their previous experience with two- and three-dimensional shapes and expand their spatial reasoning skills. Students lay the groundwork for understanding area by composing various geometric figures.

**What Came Before this Module:** Students took their first steps toward understanding place value. Students composed and decomposed teen numbers as “10 ones and some ones” and practiced counting to 100 by ones and tens.

Kindergarten,  
Module 6

### Words to Know

**Ordinal Numbers:** first, second, third, fourth, fifth, sixth, seventh, eighth, ninth, tenth

**Position Words:** above, below, beside, in front of, next to, behind

**Two-Dimensional Shape Words:**

Circle

Triangle

Rectangle

Square

Hexagon

**Face:** a two-dimensional side of a three-dimensional shape

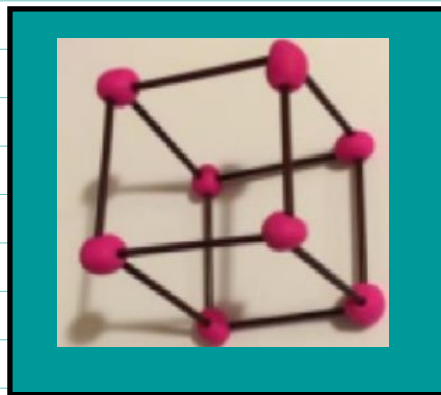
**Three-Dimensional Shape Words:**

Sphere

Cube

Cylinder

Cone



**Special points of interest:**

- ✓ Words to Know
- ✓ Building and Drawing Flat and Solid Shapes
- ✓ Composing and Decomposing Shapes
- ✓ Mathematical Practices
- ✓ Coming Soon! Learn! Want to help your child with DUVAL Math?

### Questions?

Mrs. Wendy Dobson

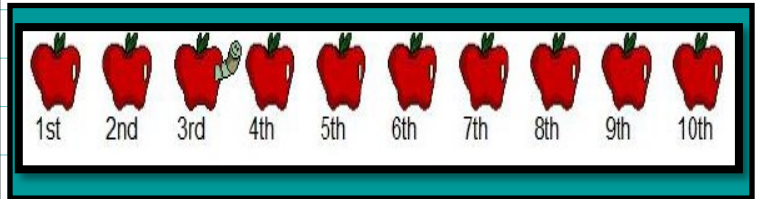
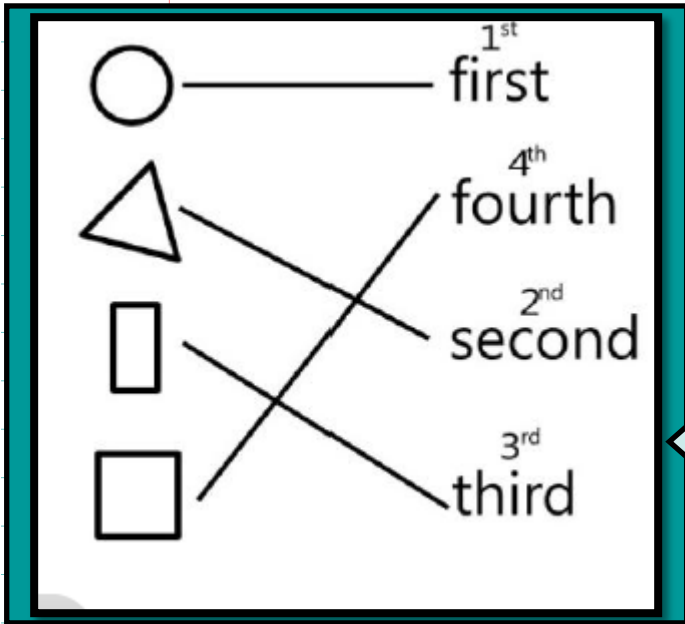
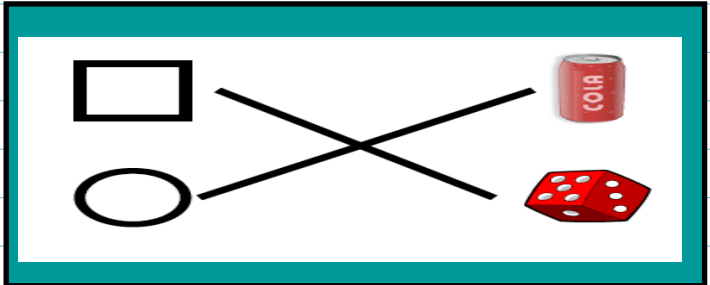
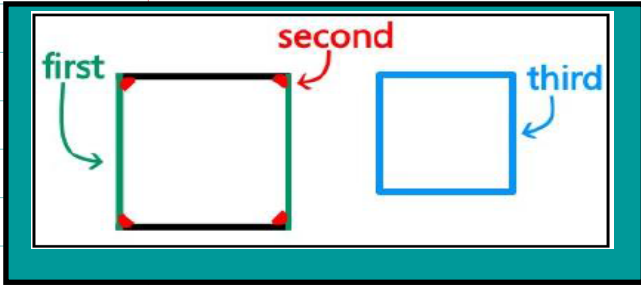
Supervisor, Mathematics K-5

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# Building and Drawing Flat and Solid Shapes

Using cardinal numbers, students will be given directions to finish drawing shapes.

Draw a line from the flat shape to the object that has a face with that flat shape.

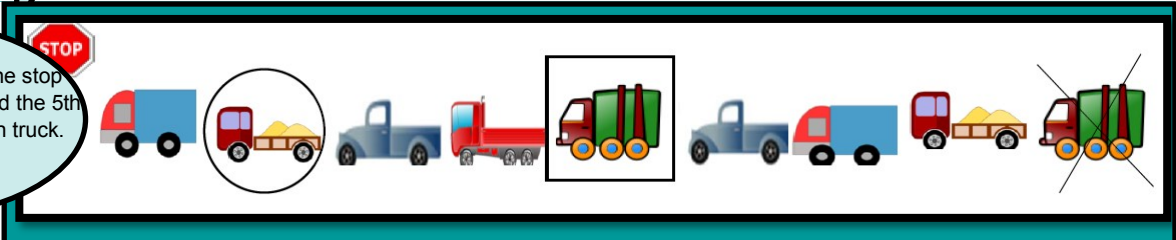


Draw a line from the shape to the correct ordinal number, starting at the top.

Circle the 3rd car from the stop sign. Draw a square around the 5th car. Draw an X on the 2nd car.

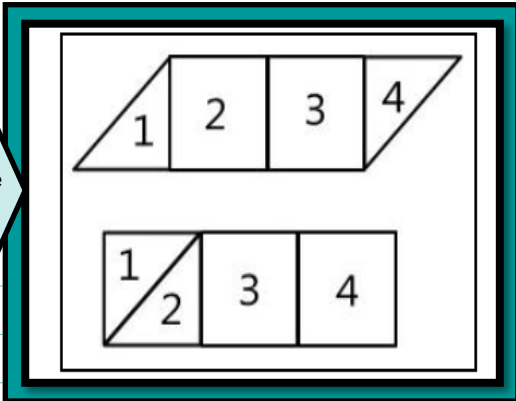


Circle the 2nd truck from the stop sign. Draw a square around the 5th truck. Draw an X on the 9th truck.

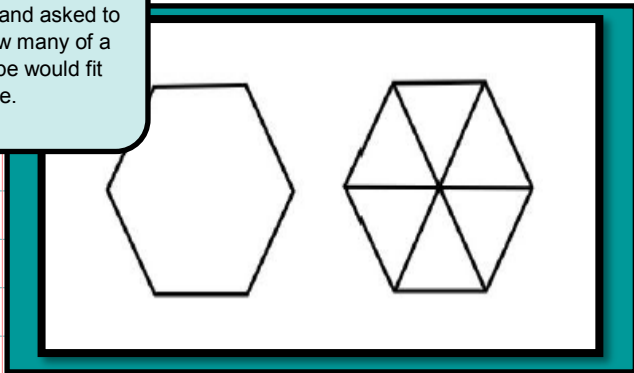


# Composing and Decomposing Shapes

The image above shows that there is more than one way to create a larger shape using the same 4 smaller shapes.



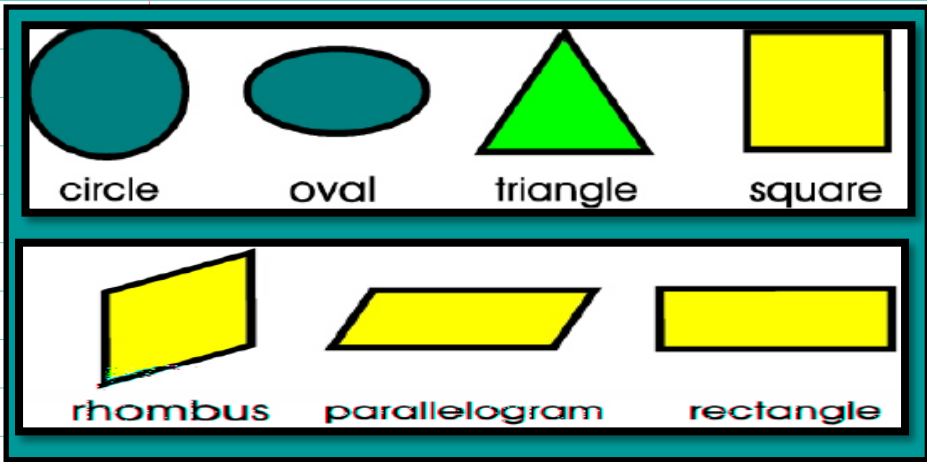
Students will be given a blank shape and asked to figure out how many of a different shape would fit into the shape.



Draw 2 shapes used to build the rectangle.

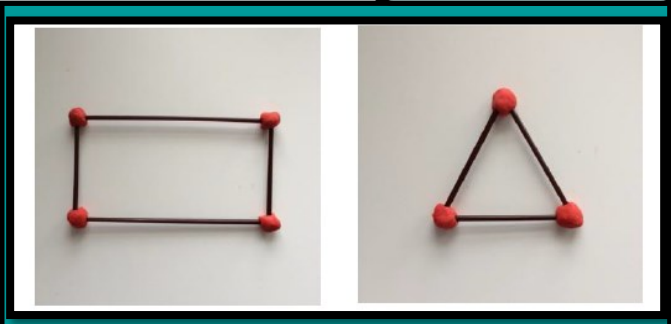
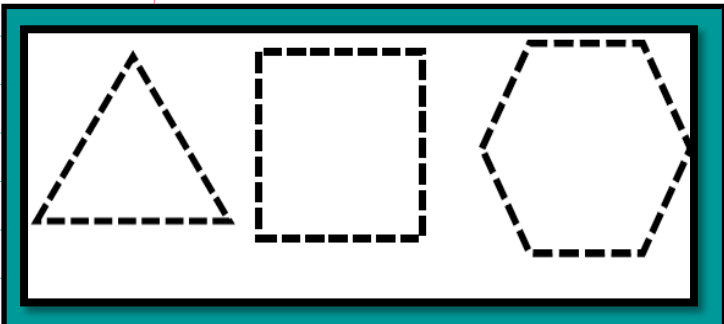
Draw 2 shapes used to build the house.

Same Problems Topic B



In Topic B, students begin to think about shapes differently. They will learn to compose larger shapes by combining smaller shapes.

Students will use a ruler to trace and draw various shapes, and will then move to drawing their own shapes, and making them with clay and straws.



## Standards for Mathematical Practice

### Mathematical Practices Addressed in this Module:

**MP.1 Make sense of problems and persevere in solving them.** Students persist in their use of trial and error until they begin to use the attributes of a puzzle to determine which shape fits into an open space. “The empty space has a long side like my triangle. Let’s see if my triangle fits.”

**MP.4 Model with mathematics.** Students use shapes to create pictures of common objects and use straws and clay to create models of two- and three-dimensional objects in their environment.

**MP.6 Attend to precision.** Ordinal numbers provide students with vocabulary to precisely describe the spatial organization of ten shapes in a straight line.

**MP.7 Look for and make use of structure.** Students make use of their understanding of a shape’s attributes to build three-dimensional shapes from two-dimensional shapes.

1. Go to [www.zearn.org](http://www.zearn.org)
2. Create a login.
3. Click on Courses.
4. There is a drop-down menu on the left. Click on the grade and the Mission. Mission is being used in place of Module. Example: Grade 3 Mission 4 is the same as Grade 3 Module 4.
5. Scroll to find a particular lesson.
6. Now you can click on one of the choices offered for that lesson. What is offered varies from lesson to lesson. These are some of the choices the lessons may offer.
  - **Math Chat/Learning Lab/Z-Quad:** could have a warm-up followed by a video or just a lesson video
  - **Tower:** Practice Problems
  - **Bonus:** Extra Problems
  - **Sprints:** Sprints presented in lesson are available for student to take online.
  - **Multiply Mania:** Multiplication Facts

[www.zearn.org](http://www.zearn.org)  
Zearn!

Additional Practice aligned with DUVAL Math!