

GEOMETRY

Unit Bundle

GEOMETRY DAY 2 Lesson plan

Review Polygon Names and Learn About 2-D Shape Attribute: Congruent Sides

TEKS: 3.6A Classify and sort two- and three-dimensional figures, including cones, cylinders, spheres, triangular and rectangular prisms, and cubes, based on attributes using formal geometric language.

TEKS: 3.6B Use attributes to recognize rhombuses, parallelograms, trapezoids, rectangles, and squares as examples of quadrilaterals and draw examples of quadrilaterals that belong to any of these subcategories.

Materials Needed:



Vocabulary to Define in Notebook:
Congruent Sides, Congruent Shapes, Quadrilateral

Warm-up:

Play Polygon Cardio with your students for a few minutes. This activity includes certain types of polygons. 2 versions are included: one with vocabulary and one with most common polygons with vocabulary support. Students should be able to draw polygons up to 12 sides. Students should be able to draw polygons from Day 1 if they need it. You may wish to play as a whole class or in small groups. You may wish to play as a whole class or in small groups. You may wish to play as a whole class or in small groups.

Lesson:

- Display the Day 2 Introduction page and ask the following questions:
 - What do the shapes in Set 1 have in common? (All congruent)
 - What do the shapes in Set 2 have in common? (All congruent)

HANDS-ON GEOMETRY 3.6A TASK 1

Classify and sort 2-D & 3-D figures

- 1. PYRAMID
- 2. RECTANGULAR PRISM
- 3. TRIANGULAR PRISM
- 4. QUADRILATERAL
- 5. PENTAGON

YOU WILL NEED:

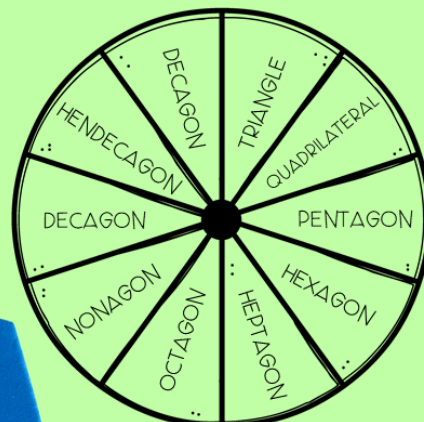
- Dice
- Playdough
- 2 different sizes of Toothpicks

DIRECTIONS:

1. Roll the die to select a shape.

HANDS-ON GEOMETRY 3.6A TASK 1

Classify and sort 2-D & 3-D figures



YOU WILL NEED:

- Geoboard
- Rubber Band
- Paperclip to use a spinner

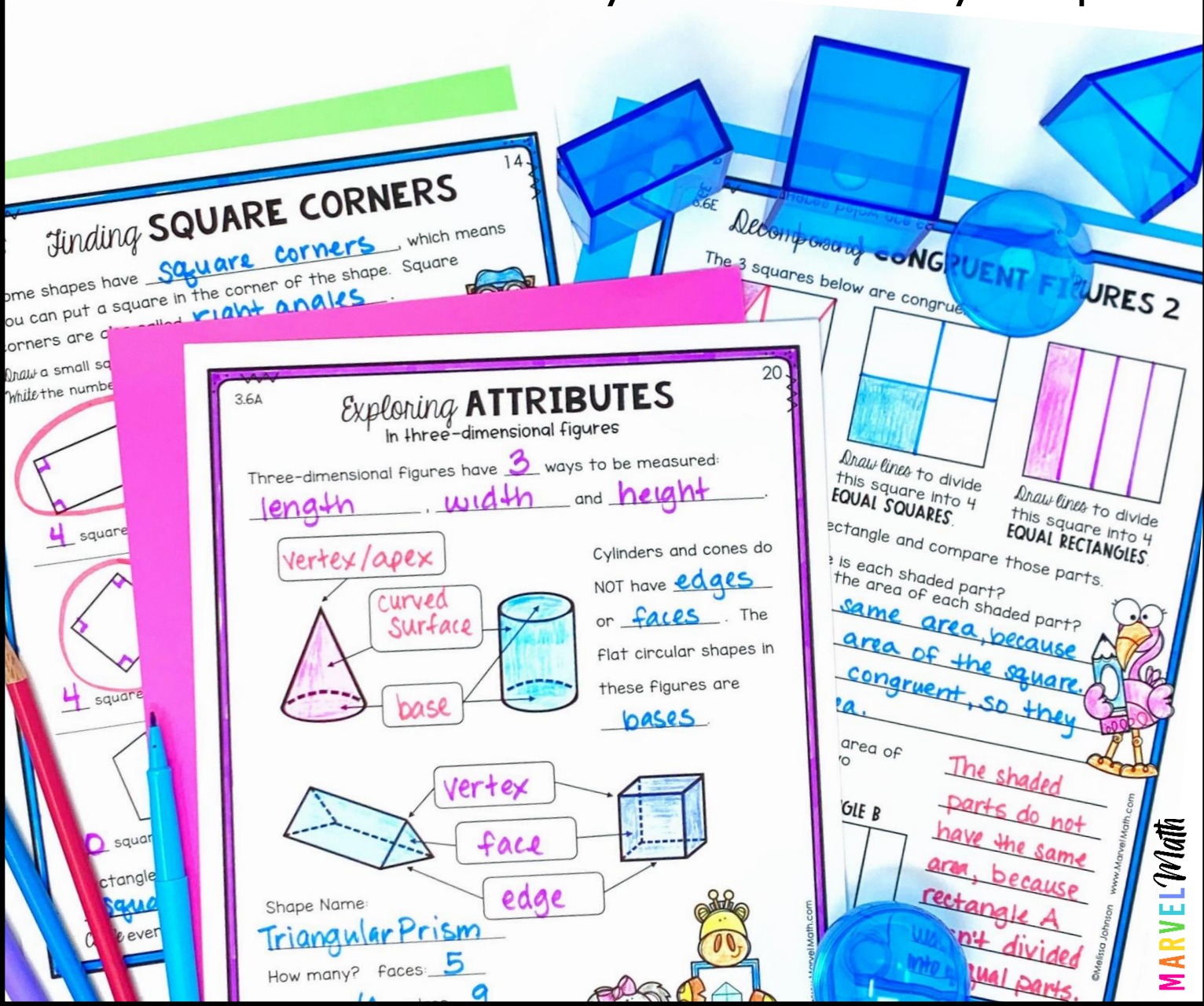
DIRECTIONS:

1. Spin the spinner to select a polygon.
2. Use a geoboard to create that polygon.

3rd
GRADE

Notebook Pages

To introduce every Geometry Topic



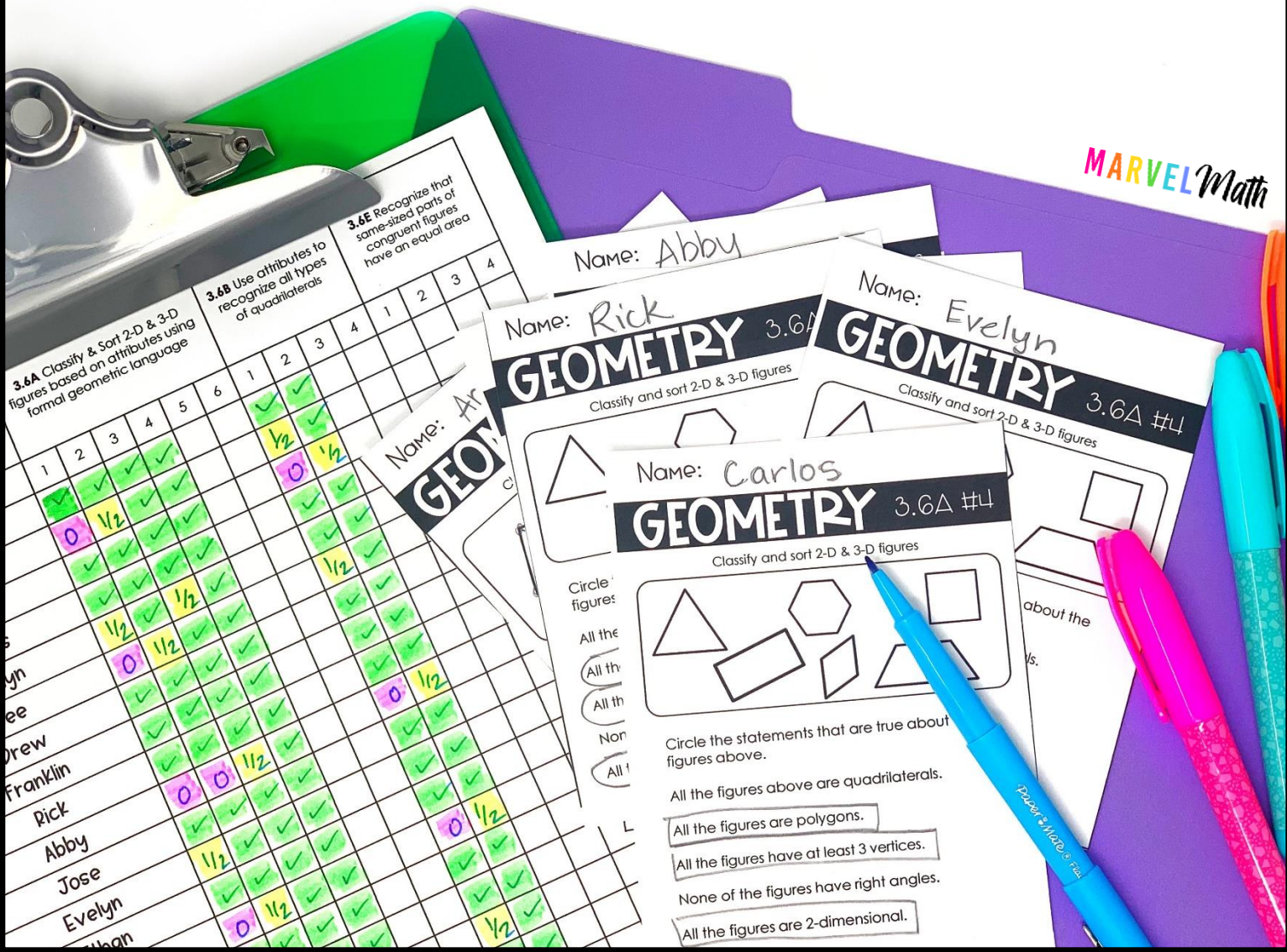
Engaging Games

Includes fun games to use at math stations to practice important skills



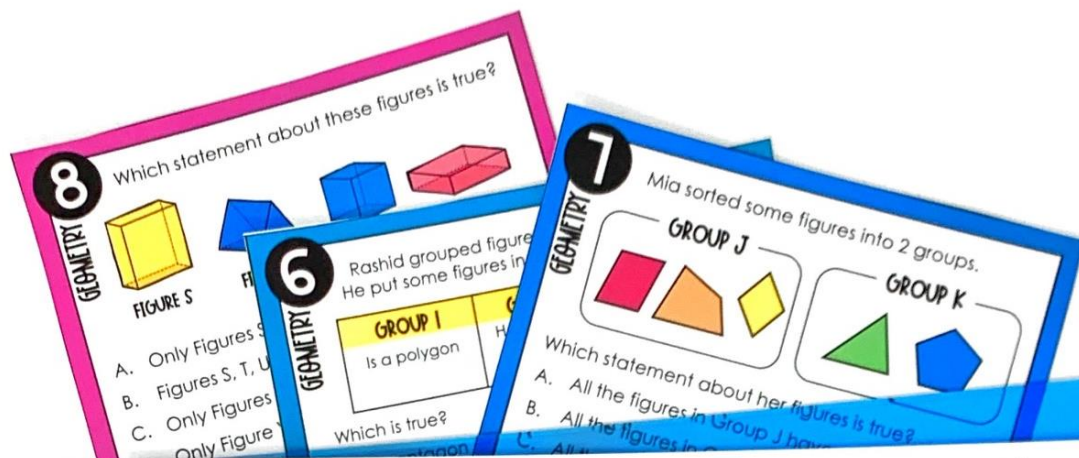
Organized & Easy to Use

Exit tickets help you see student mastery at a glance



Task Cards

Print and Digital versions included



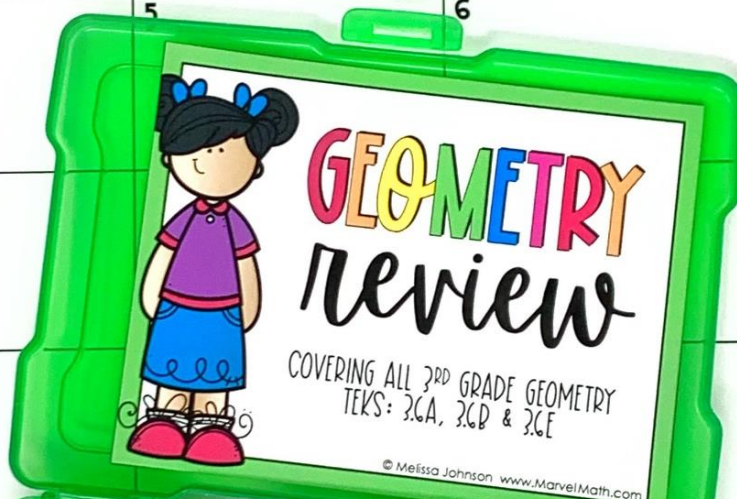
NAME: _____

GEOMETRY review

Show your work or justify your answers in the boxes. Some problems do not require you to show work. Record all your answers HERE.



1	2	3
4	5	6
7	8	9
10	11	12
13	14	15
16	17	18
19	20	21
22	23	



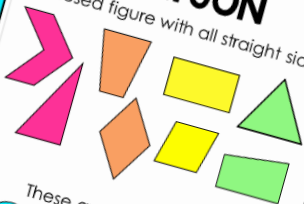
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Vocabulary Bunting

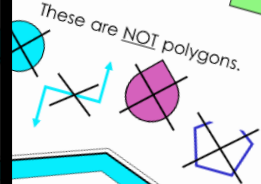
Support your students during your
Geometry Unit

POLYGON

A closed figure with all straight sides



These are NOT polygons.



PARALLEL SIDES

Sides that are the same distance apart



This shape has 1 set of sides that are the same distance apart.



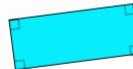
This shape has 2 sets of sides that are the same distance apart.

SQUARE CORNER

A corner of a shape that can fit a square; also called a right angle



This shape has 2 square corners.



This shape has 4 square corners.

CONGRUENT SIDES

Sides are all the same length in a figure



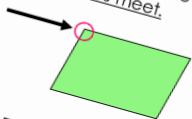
CONGRUENT SHAPES

Same size & shape

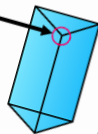


VERTEX

In a 2-D shape, it is the point where 2 sides meet.



In a 3-D shape, it is the point or corner where 3 or more faces meet.



FACE

A polygon that forms the surface of a 3-D shape.



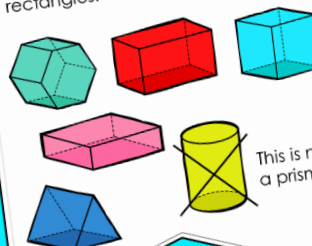
EDGE

Where 2 faces meet on a 3-D shape.

Shapes without polygons (cones, spheres, cylinders) do not have faces or edges.

PRISM

A 3-D shape with two congruent bases (that are also faces) that are polygons. All other faces are rectangles.

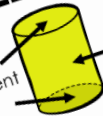


This is not a prism.



CYLINDER

2 congruent bases
curved surface

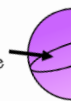


CONE

vertex/apex
curved surface
base



SPHERE



Worksheets Students Love

To practice skills they need

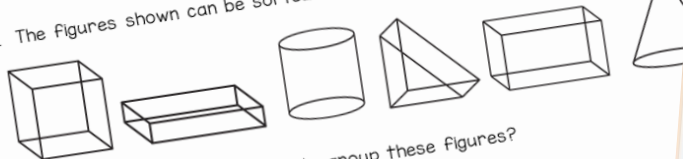


2 Versions of the Unit Test

Printable PDF and Self-Grading
Google Forms for Both Versions

GEOMETRY ASSESSMENT #1

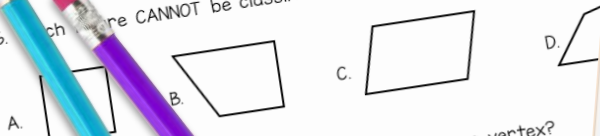
5. The figures shown can be sorted into groups.



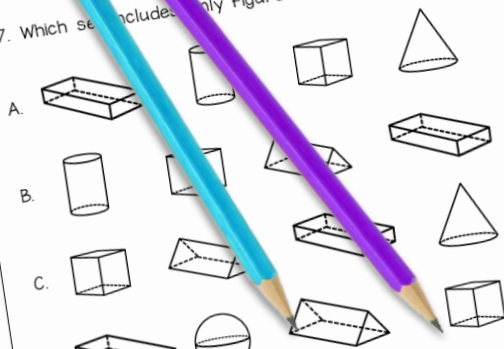
Which list shows a correct way to group these figures?

- A. 4 prisms, 1 cylinder, 1 cone
- B. 1 cone, 1 sphere, 4 prisms
- C. 1 cylinder, 3 prisms, 1 cone, 1 pyramid
- D. 4 prisms, 1 cylinder, 1 pyramid

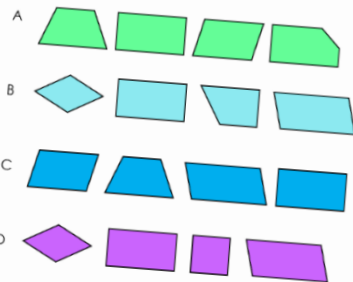
6. Which figure CANNOT be classified as a parallelogram or a trapezoid?



7. Which set includes only figures with at least one vertex?



In which set do all the figures appear to be parallelograms?

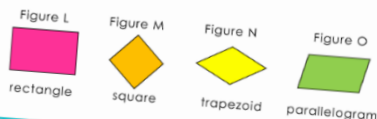


- ☐ A
- ☐ B
- ☐ C
- ☐ D

#3 [TEKS 3.6B]

10 points

Which shape is NOT correctly labeled?



Journal Prompts

To get students thinking more deeply about each Geometry concept

Draw 5 or more quadrilaterals. Label each one with all the names that apply to it.



3.6B #2a

Example:  polygon, quadrilateral, parallelogram, rectangle



- polygon
- quadrilateral
- parallelogram



- polygon
- quadrilateral
- trapezoid



- polygon

Determine how these figures could be sorted into 2 groups based on attributes. Write those 2 attributes on your paper and draw the shapes that fit into each. Challenge: Find another way to sort the figures.



3.6A #2b

3.6B #2b



3.6E #2b

- rhombus



- polygon
- quadrilateral



About the Author

This resource was created by Melissa Johnson, who has 16 years of k-10 teaching experience and a masters degree in Mathematics Education. Her resources build conceptual understanding, make connections between math topics and engage students in the mathematics they are learning.

