Grade 4 Math Assessment
2D Geometry

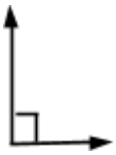
Name: _____

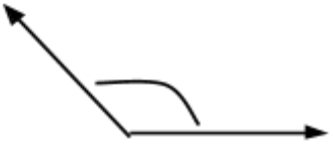
Expectation Question numbers correspond to expectation numbers.	Target Met	Still Progressing
1. Identify and compare various polygons.		
2. Identify and compare angles, and describe angles as greater than, equal to, or less than a right angle.		
3. Sort and classify geometric shapes by their properties.		
4. Solve problems requiring the greatest or least number of two-dimensional shapes.		
5. Complete a picture that has a diagonal line of symmetry and explain why a shape is symmetrical.		

1. Choose three polygons and complete the chart.

Polygon	Number of Sides	Equal length Sides	Number of Vertices	Number of right Angles

2. Identify the following angles (greater than, equal to, or less than a right angle).





_____ _____ _____

3. Look at the shapes below

Complete the following table about the shapes. Put the letter in the box.

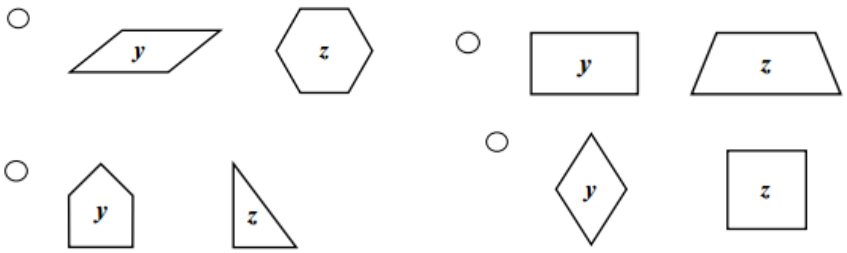
Shapes that are parallelograms.	Shapes that are not parallelograms.
Explain your thinking.	Explain your thinking.

3. Look at the chart below.

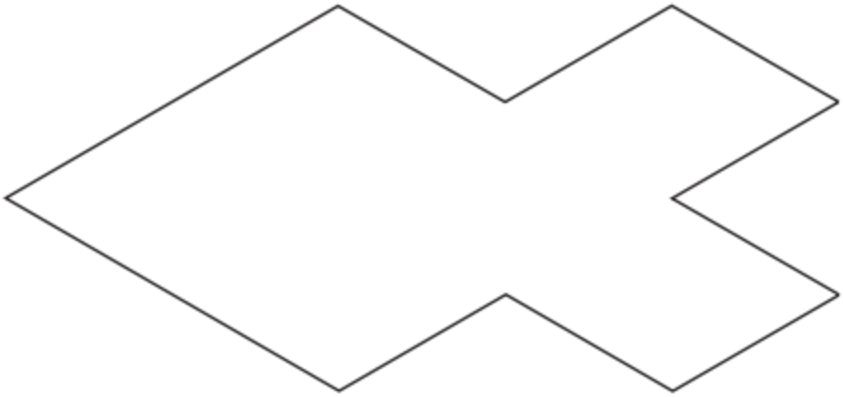
	□	△	*y*	*z*
Right Angle	✓	X	X	X
4 Sides	✓	X	✓	X

Legend
✓ = Yes
X = No

Which of the following shapes could belong in place of y and z?



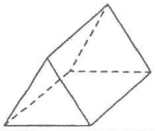
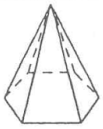
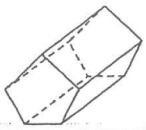
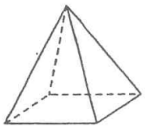
4. The shape below has been made using pattern blocks.



Darius says, “I can cover this shape using 12 green triangles.”
Adam says, “I can cover the same shape using 4 pattern blocks that are all different.”

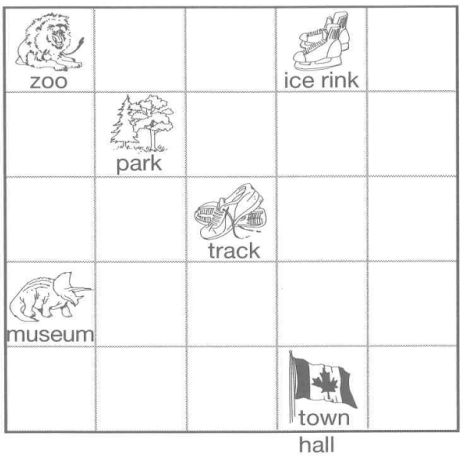
Show how Adam can cover the shape with 4 different pattern blocks.
Describe the relationship between Adam’s pattern blocks and the green triangles.

8. Complete the chart below.

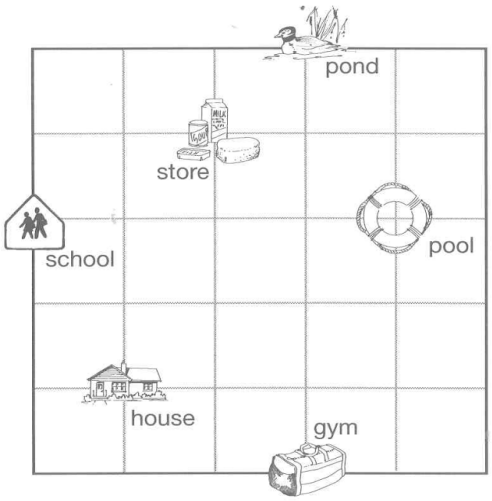
Solid	Name	Number of Faces	Number of Edges	Number of Vertices
				
				
				
				

9. Draw a route from one place to another. Use directions and numbers to describe the route.

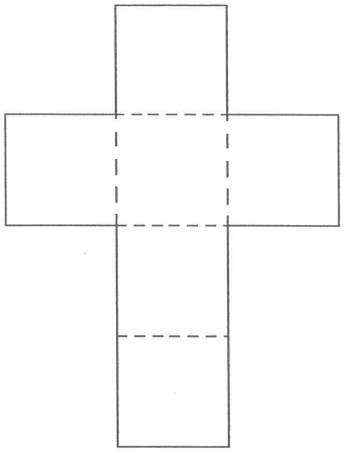
a. town hall to zoo



b. pool to school to house

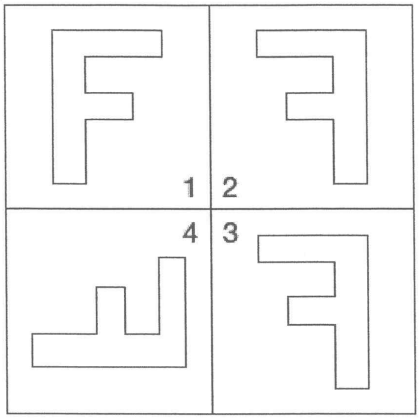


11. Which figure can be formed using the net shown?



- ❏ cylinder
- ❏ cube
- ❏ square-based pyramid
- ❏ sphere

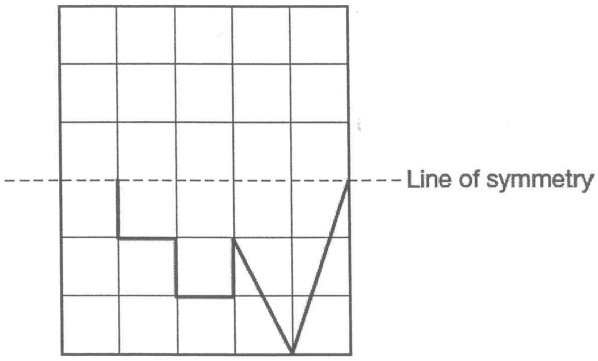
12. Look at the grid below.



Which words describe the transformation of the letter F from Box 1 to Box 2 to Box 3 to Box 4?

- ❏ translation, reflection, rotation
- ❏ reflection, rotation, translation
- ❏ reflection, translation, rotation
- ❏ translation, rotation, reflection

5. Complete the shape on the grid so that it is symmetrical. Use the dashed line as a line of symmetry.



Explain how you know the completed shape is symmetrical.