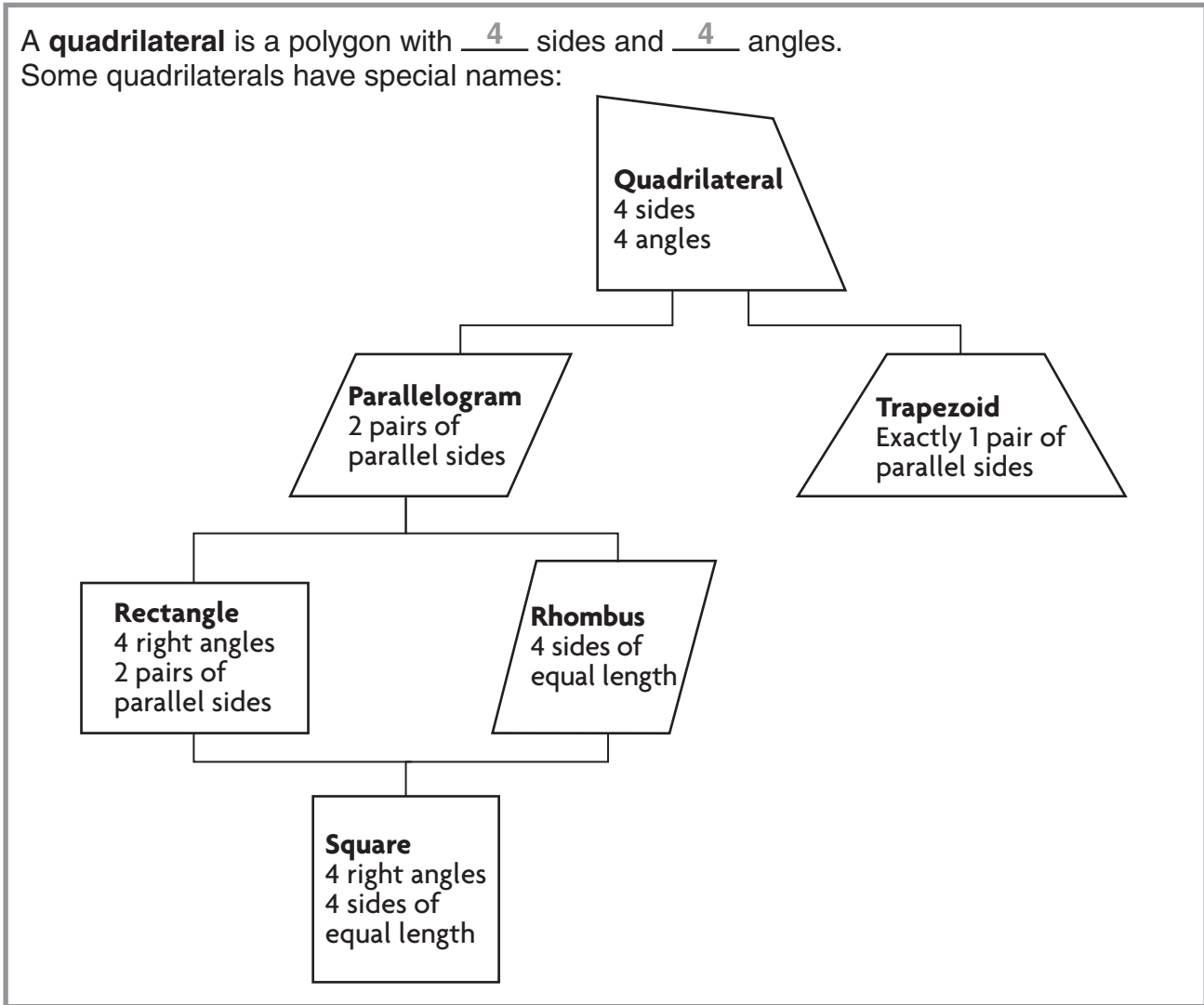


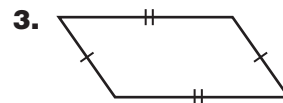
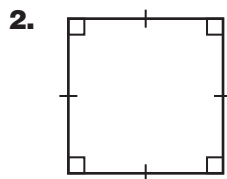
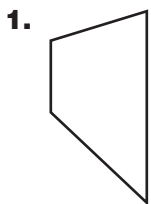
Name _____

Classify Quadrilaterals

A **quadrilateral** is a polygon with 4 sides and 4 angles.
Some quadrilaterals have special names:



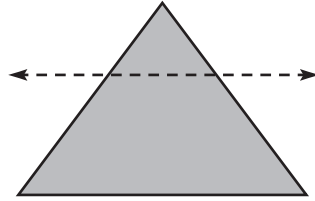
Classify each figure as many ways as possible. Write *quadrilateral*, *trapezoid*, *parallelogram*, *rhombus*, *rectangle*, or *square*.



Name _____

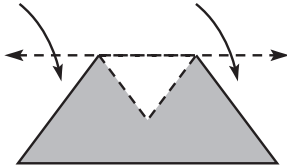
Line Symmetry

Tell whether the parts on each side of the line match.
Is the line a line of symmetry?



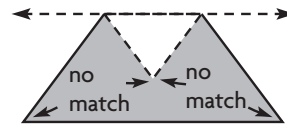
Step 1 Trace and cut out the shape.

Fold the shape along the dashed line.



Step 2 Tell whether the parts on each side match.

Compare the parts on each side.



The parts do not match.

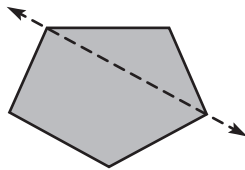
Step 3 Decide if the line is a line of symmetry.

The parts on each side of the line do not match.

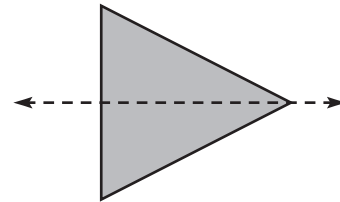
So, the line is not a line of symmetry.

Tell if the line appears to be a line of symmetry. Write *yes* or *no*.

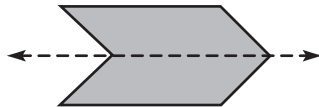
1.



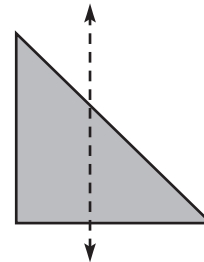
2.



3.



4.



Name _____

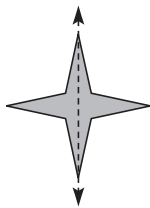
Find and Draw Lines of Symmetry

Tell whether the shape appears to have zero lines, 1 line, or more than 1 line of symmetry. Write *zero*, *1*, or *more than 1*.



Step 1 Decide if the shape has a line of symmetry.

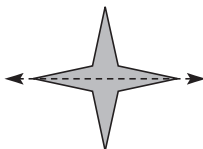
Trace and cut out the shape. Fold the shape along a vertical line.



Do the two parts match exactly? yes

Step 2 Decide if the shape has another line of symmetry.

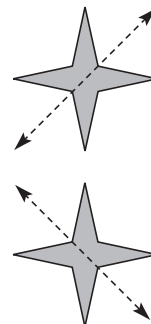
Open the shape and fold it along a horizontal line.



Do the two parts match exactly? yes

Step 3 Find any other lines of symmetry.

Think: Can I fold the shape in other ways so that the two parts match exactly?



I can fold the paper diagonally two different ways, and the parts match exactly.

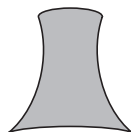
So, the shape appears to have more than 1 line of symmetry.

Tell whether the shape appears to have zero lines, 1 line, or more than 1 line of symmetry. Write *zero*, *1*, or *more than 1*.

1.



2.



3.



Name _____

Problem Solving • Shape Patterns

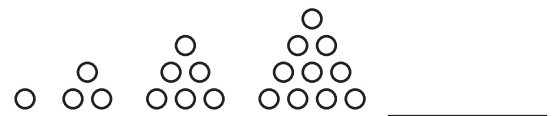
Use the strategy *act it out* to solve pattern problems.

What might be the next three figures in the pattern below?



Read the Problem		
<p>What do I need to find?</p> <p>I need to find the next three <u>figures</u> in the pattern.</p>	<p>What information do I need to use?</p> <p>I need to look for <u>a group of figures</u> that repeat.</p>	<p>How will I use the information?</p> <p>I will use pattern blocks to model the <u>pattern</u> and act out the problem.</p>
Solve the Problem		
<p>Look for a group of figures that repeat and circle that group.</p> <p>The repeating group is <u>triangle, triangle, square, triangle, square</u>.</p> <p>I used <u>triangles</u> and <u>squares</u> to model and continue the pattern by repeating the figures in the group.</p> <p>These are the next three figures in the pattern: <u> </u> <u> </u> <u> </u></p>		

1. Describe the pattern shown at right. Draw what might be the next figure in the pattern.



2. Use the pattern. How many circles will be in the sixth figure?
