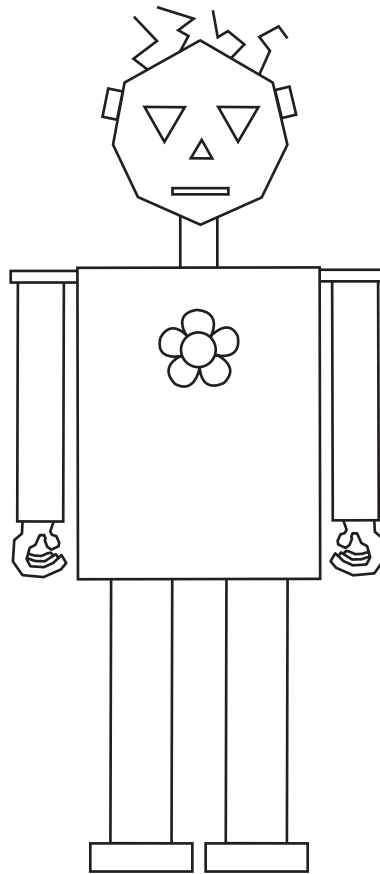# Sorting Polygons by Attributes
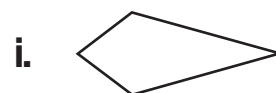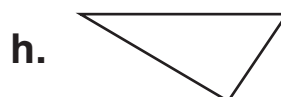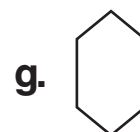

1. There are _____ polygons in the picture.

2. There are _____ polygons with 3 sides in the picture.

3. There are _____ polygons with 4 sides in the picture.

4. There are _____ polygons with more than 4 sides.
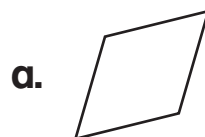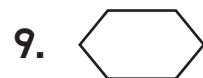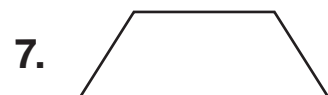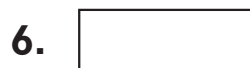
5. Color one of the shapes that is not a polygon.
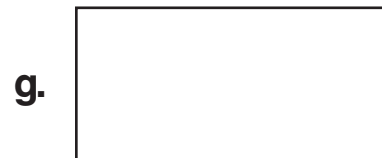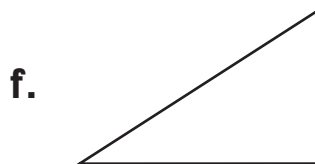
_____

_____

Congruent and Similar Figures

Which figures are congruent?
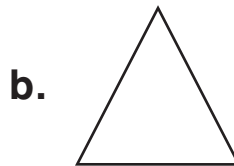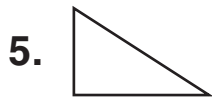**Draw lines to match.**

1.

2.

3.

4.

5.
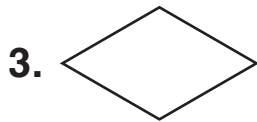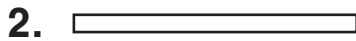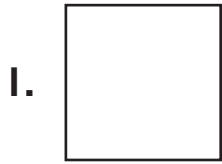
6.

7.

8.

9.

10.

a.

b.

c.

d.

e.

f.

g.

h.

i.

j.
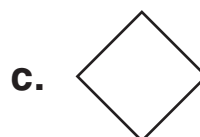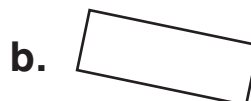
Building with Triangles

**Which figures are similar?
Draw lines to match.**

1.   a.

2.   b.

3.   c.

4.   d.

5.   e.

6.   f.

7.   g.
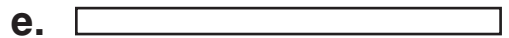
Looking at Reflections

Draw the reflection of each figure.

1.

2.

3.

4.

5.

6.

7.

8.

9.

10.
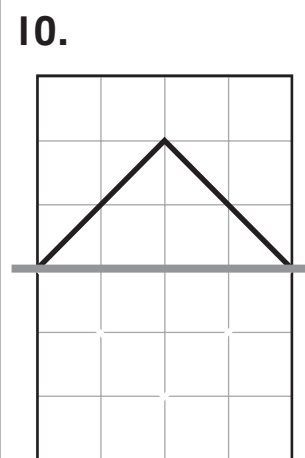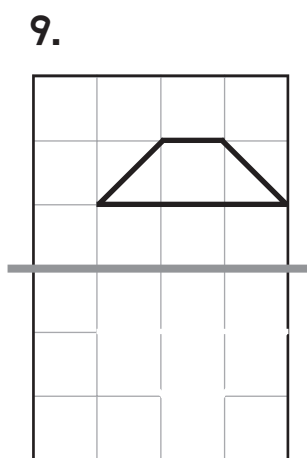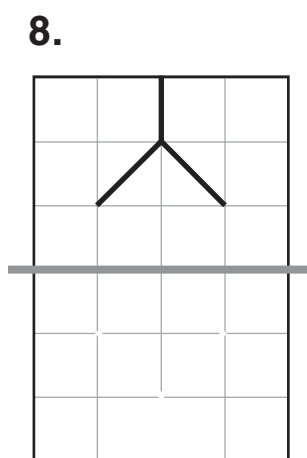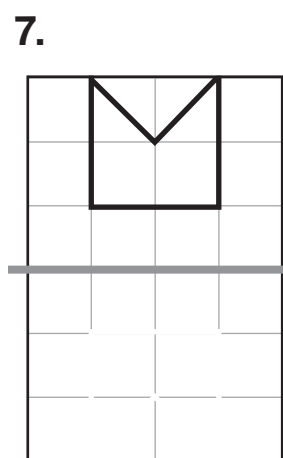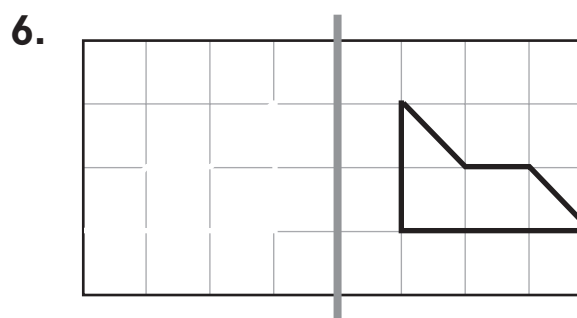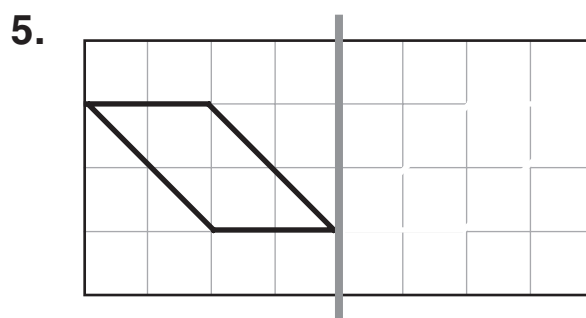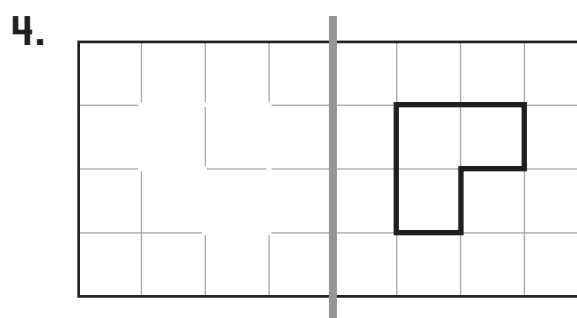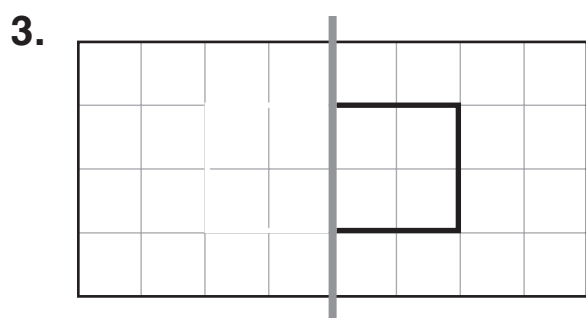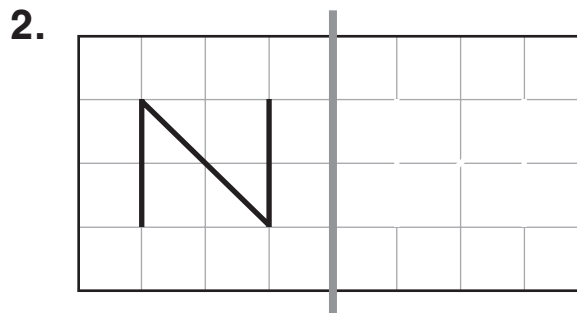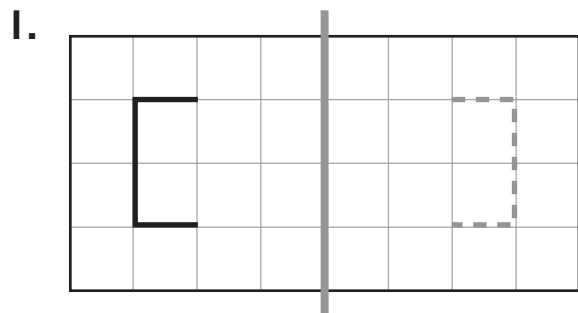
Lines of Symmetry

Look at each number. Can you divide it into two matching parts? If so, draw all the lines of symmetry. If not, write *no.*

1.

8

2.

0

3.

6

4.

10

5.

7

6.

2

7.

3

8.

11

9.

5
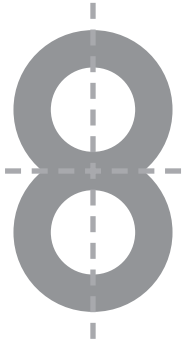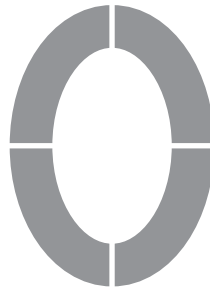
Cutting Polygons Apart

What new figures do you get if you cut along the lines?

1.

2.

Draw one or two lines to make the new figures.

3. Make 2 triangles.

4. Make 3 triangles.

---
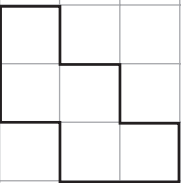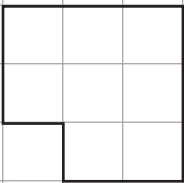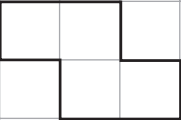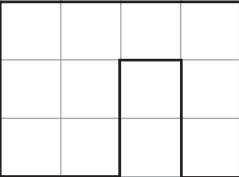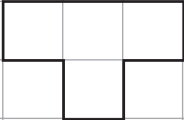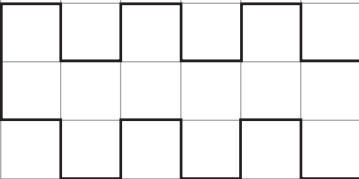
5. Cindy cut this pentagon in half to make two congruent pieces. Could the pieces be triangles? Use words and the picture to explain.

_____

_____
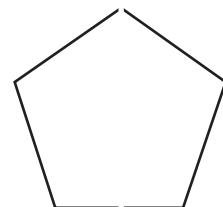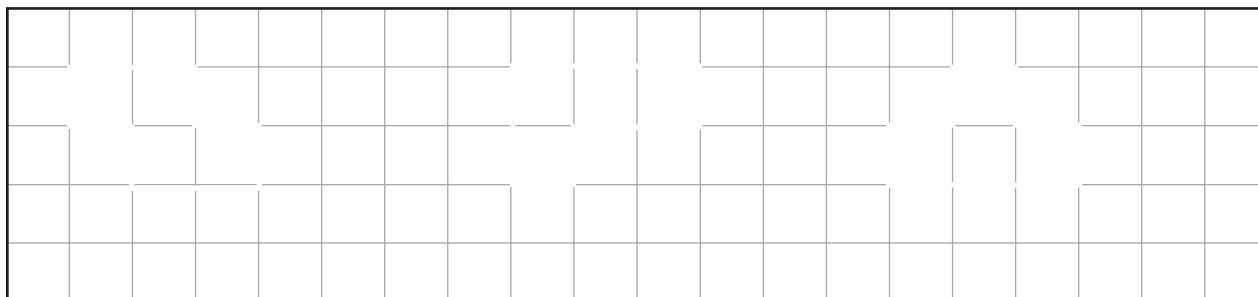
Measuring Area

What is the area? Each ☐ **is one square unit.**

1. _____ square units
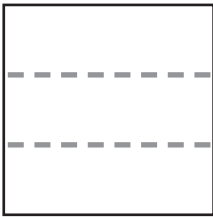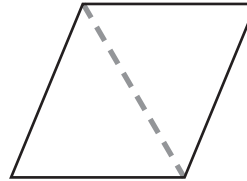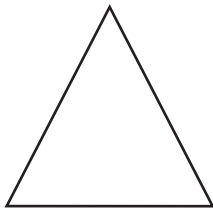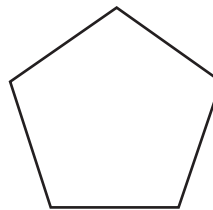
2. _____ square units

3. _____ square units

4. _____ square units

5. _____ square units

6. _____ square units

7. _____ square units

8. _____ square units

---

9. Draw 3 polygons that are NOT rectangles.
Each should have an area of 4 square units.

Recording Paths

What path is shown from dot to dot?
What is a shortest path? Record below.
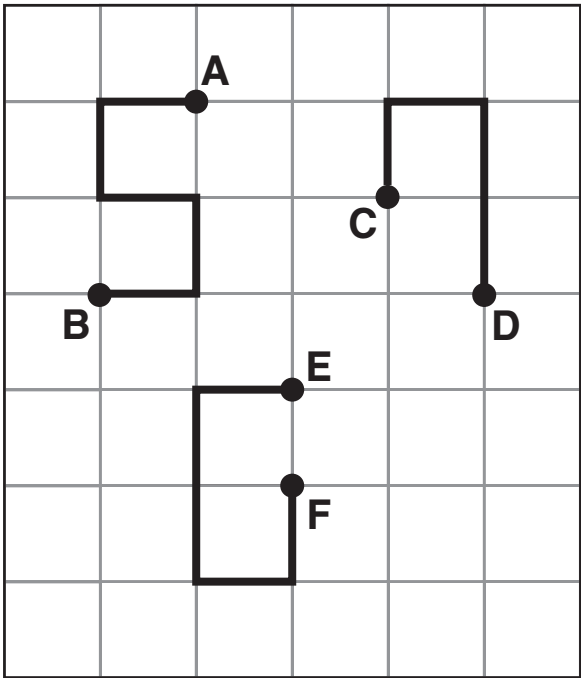
	Path Shown	**Shortest Path**
1.	from **A** to **B** ____ ____ ____ ____ ____	from **A** to **B** ____ ____ ____
2.	from **C** to **D** ____ ____ ____ ____ ____	from **C** to **D** ____ ____ ____
3.	from **E** to **F** ____ ____ ____ ____ ____	from **E** to **F** ____ ____ ____

Directions from Here to There
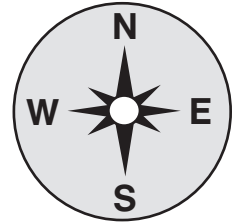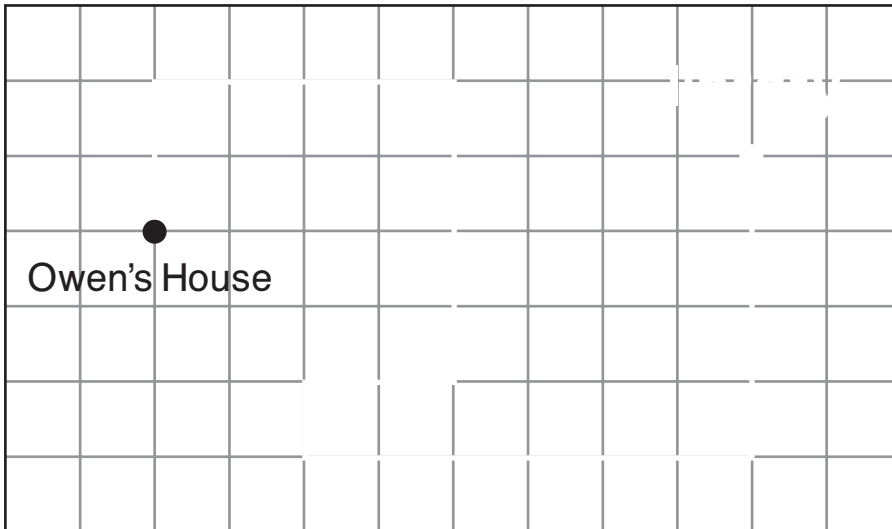
Owen's House

Owen walked from his house
to the library. He took this path:
NN EEEE SSSS WW S EEEEE NNNN.

I. Show Owen's path on the map. Mark a dot at the library.

2. How many blocks did Owen walk? _____ blocks

3. Was Owen's path a shortest path to the library? Explain.

_____

_____

4. Write shorthand for the shortest paths
from Owen's house to the library. _____

5. Write shorthand for the shortest paths
from the library back to Owen's house. _____