

Name _____

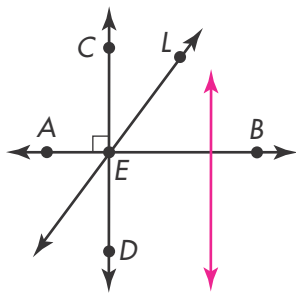
1. A figure with two pairs of parallel sides is incorrectly identified as a trapezoid. Identify the shape. Explain. **2 points**

Parallelogram; Sample answer: A trapezoid is not a parallelogram because it only has one pair of parallel sides.

2. How many acute angles are there in an obtuse triangle? **1 point**

2 acute angles

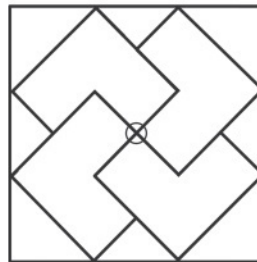
3. Robin drew several lines. Draw a line that is perpendicular to \overleftrightarrow{AB} . **1 point**



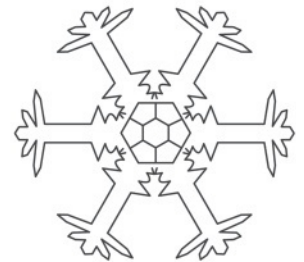
4. Bree described a yardstick as a length of wood that starts at 0 and continues on to 36 inches. Which geometric term best describes Bree's description of a yardstick? **1 point**

Line segment

5. Four of Mrs. Anderson's students decorated a set of chairs with the stencil shapes shown below. Order the students' stencils in order from fewest lines of symmetry to most lines of symmetry. **1 point**



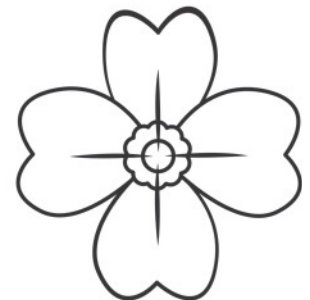
Seth



Sally



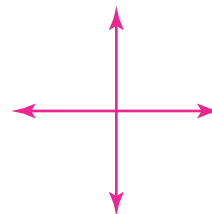
Frank



Fabi

Seth, Frank, Fabi, Sally

6. What geometric term best describes a pair of lines that form a right angle? What geometric term best describes a pair of lines that never intersect? Draw a picture to illustrate your answers. **2 points**



Perpendicular lines



Parallel lines

7. A four-sided figure with all sides of equal length cannot be what type of quadrilateral? Explain. **2 points**

Trapezoid; Sample answer: A trapezoid can have at most two sides of equal length.

8. Equilateral triangle XYZ has a perimeter of 21 inches. What are the lengths of the sides of the triangle? Explain. **2 points**

7 inches; Sample answer: All three side lengths of an equilateral triangle are equal; $21 \div 3 = 7$

9. Which set of angles could form a triangle?

- A Three right angles **1 point**
 B Three acute angles
 C Two right angles, one acute angle
 D One right angle, one obtuse angle, one acute angle

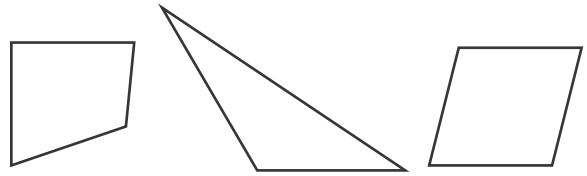
10. A figure has one pair of parallel lines, two right angles, and four sides. What geometric term can be used to name the figure? **1 point**

Right trapezoid

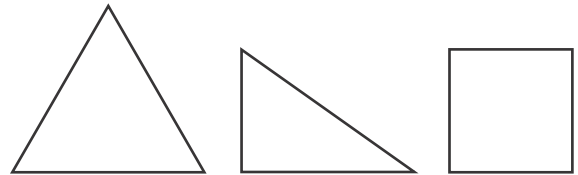
11. Nikko looks at a map and uses a geometric term to describe two streets that cross, but not at a right angle. What term could Nikko use? **1 point**

Intersecting lines

12. Shapes are divided into two groups. These are the shapes in the first group.



The following shapes do not belong in the group above. These are the shapes in the second group.



What generalization can be made about the shapes in the first group? **1 point**

Sample answer: The shapes in the top row include obtuse angles.

13. Complete the drawing so the figure is line symmetric. **1 point**

