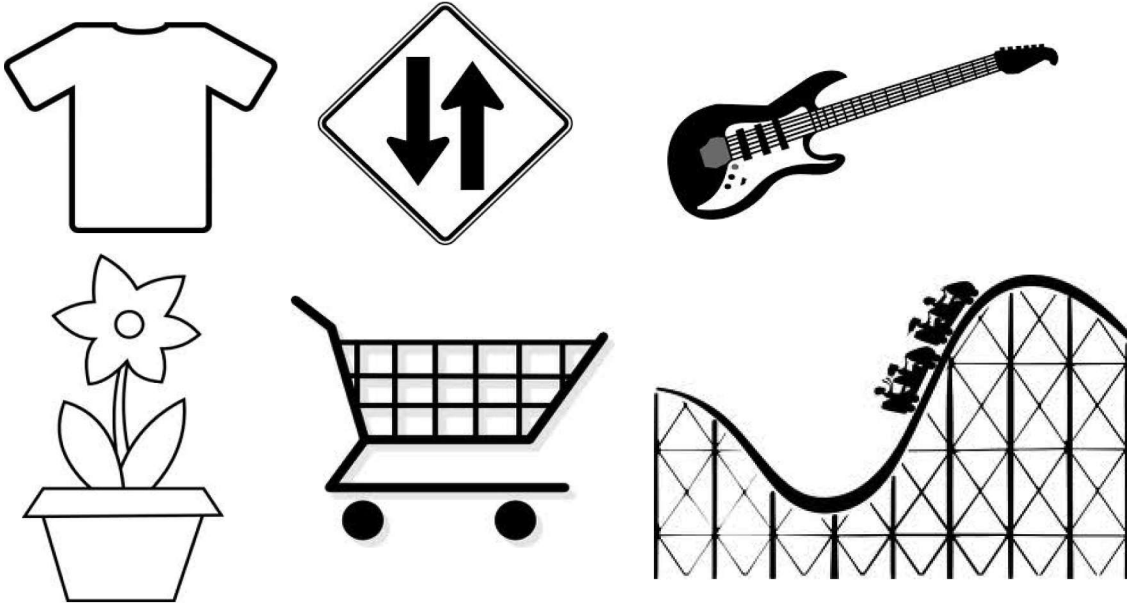


Name _____

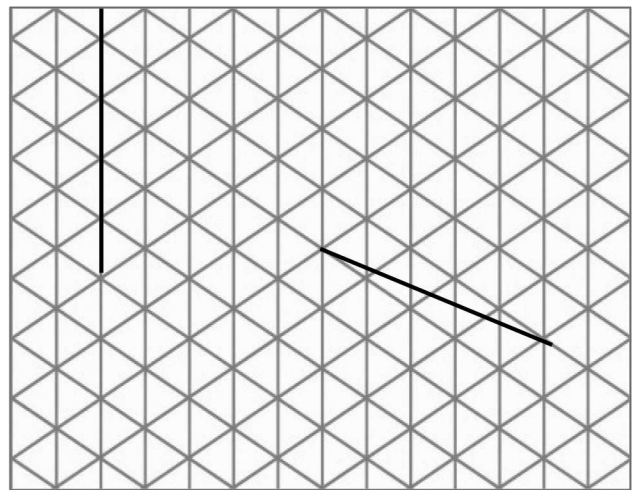
Date _____

1. On each object, trace at least one pair of lines that appear to be parallel.



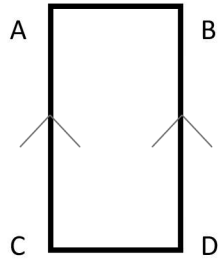
2. How do you know if two lines are parallel?

3. In the square and triangular grids below, use the given segments in each grid to draw a line that is parallel using a straightedge.



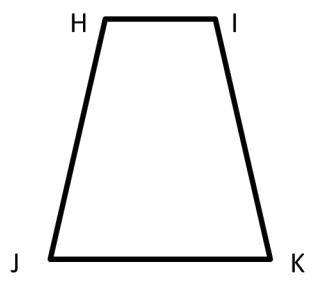
4. Determine which of the following figures have lines that are parallel by using a straightedge and the right angle template that you created. Circle the letter of the shapes that have at least one pair of parallel lines. Mark each pair of parallel lines with arrows, and then identify the parallel lines with a statement modeled after the one in 4(a).

a.

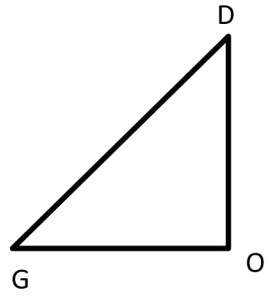


$$\overline{AB} \parallel \overline{CD}$$

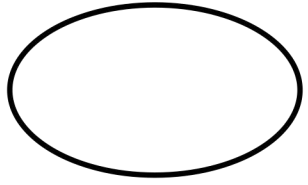
b.



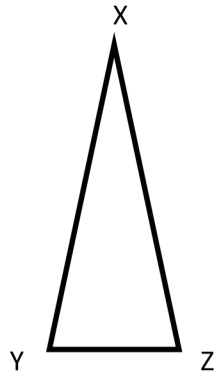
c.



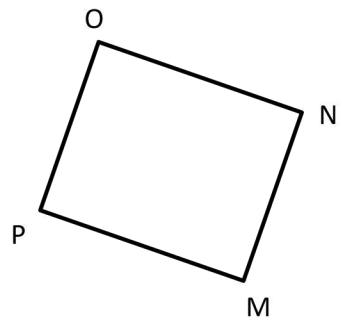
d.



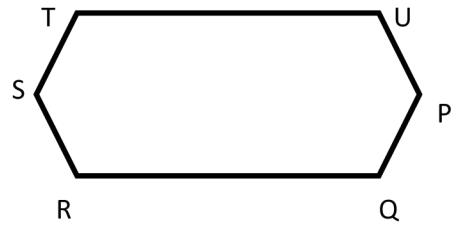
e.



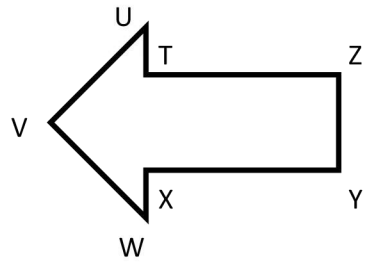
f.



g.

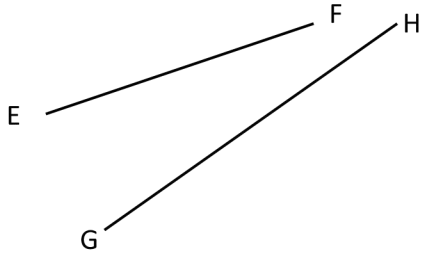
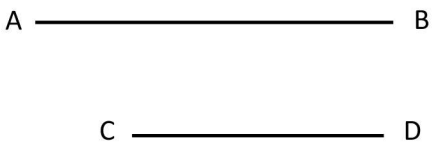


h.



5. True or false? All shapes with a right angle have sides that are parallel. Explain your thinking.

6. Explain why \overline{AB} and \overline{CD} are parallel, but \overline{EF} and \overline{GH} are not.



7. Draw a line using your straightedge. Now, use your right angle template and straightedge to construct a line parallel to the first line you drew.

Answer Key

1. Parallel lines accurately traced
2. Answers will vary.
3. Parallel lines accurately drawn
4.
 - a. Lines accurately identified and marked with arrows; $\overline{AB} \parallel \overline{CD}$
 - b. Circled; lines accurately identified and marked with arrows; $\overline{HI} \parallel \overline{JK}$
 - c. No parallel lines
 - d. No parallel lines
 - e. No parallel lines
 - f. Circled; lines accurately identified and marked with arrows; $\overline{OP} \parallel \overline{MN}$; $\overline{ON} \parallel \overline{PM}$
 - g. Circled; lines accurately identified and marked with arrows; $\overline{TU} \parallel \overline{RQ}$; $\overline{ST} \parallel \overline{QP}$; $\overline{SR} \parallel \overline{UP}$
 - h. Circled; lines accurately identified and marked with arrows; $\overline{TZ} \parallel \overline{XY}$; $\overline{TU} \parallel \overline{ZY}$; $\overline{WX} \parallel \overline{ZY}$
5. False; explanations will vary.
6. Explanations will vary.
7. Parallel lines constructed