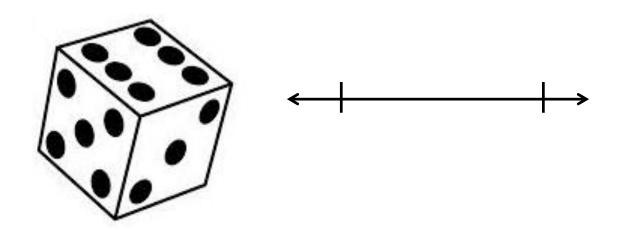
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- Use the following directions to draw a figure in the box to the right.
 - a. Draw two points: W and X.
 - b. Use a straightedge to draw \overrightarrow{WX} .
 - c. Draw a new point that is not on \overrightarrow{WX} . Label it Y.
 - d. Draw \overline{WY} .
 - e. Draw a point not on \overrightarrow{WX} . or \overline{WY} . Call it Z.
 - f. Construct \overrightarrow{YZ} .
- 2. Use the following directions to draw a figure in the box to the right.
 - a. Draw two points: W and X.
 - b. Use a straightedge to draw \overline{WX} .
 - c. Draw a new point that is not on \overline{WX} . Label it Y.
 - d. Draw \overrightarrow{WY} .
 - e. Draw a new point that is not on \overrightarrow{WY} or on the line containing \overline{WX} . Label it Z.
 - f. Construct \overrightarrow{WZ} .

- 3. a. Observe the familiar figures below. Label some points on each figure. Extend segments to show lines.
 - b. Use those points to label and name representations of each of the following in the table below.



	Die	Number line
Point		
Line		
Line segment		



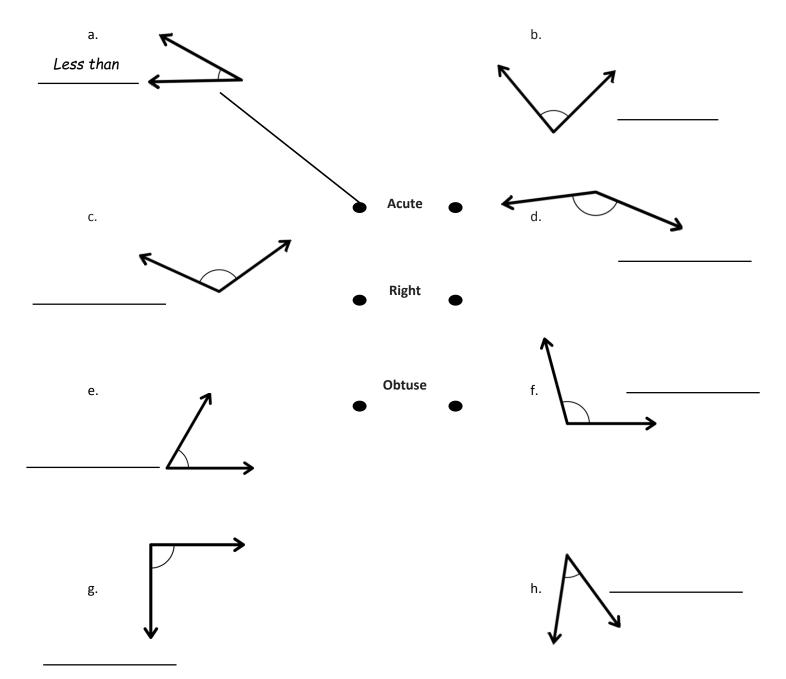
Var	ne _	
1.	Us	e the following directions to draw a figure in the box below.
	a.	Draw two points: W and X .
	b.	Use a straightedge to draw ray \overrightarrow{WX} .
	c.	Draw a new point that is not on ray \overrightarrow{WX} . Label it Y .
	d.	Draw line segment \overline{WY} .
	e.	Draw a point not on ray \overrightarrow{WX} or line segment \overline{WY} . Call it Z .
	f.	Construct line \overrightarrow{YZ} .
	g.	Use the points you've already labeled to name one angle

2.	Us	e the following directions to draw a figure in the box below.	
	a.	Draw two points: W and X .	
	b.	Use a straightedge to draw line segment \overline{WX} .	
	c.	Draw a new point that is not on line segment \overline{WX} . Label it Y .	
	d.	Draw ray \overrightarrow{WY} .	
	e.	Draw a new point that is not on ray \overrightarrow{WY} or on the line containing line segme	ent
		\overline{WX} . Label it Z .	
	f.	Construct line \overrightarrow{WZ} .	
	g.	Identify $\angle ZWX$ by drawing an arc to indicate the position of the angle.	
	h.	Identify another angle by using points that you have already drawn.	
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Name ______ Date _____

1. Use the right angle template that you made in class to determine if each of the following angles is greater than, less than, or equal to a right angle. Label each as *greater than, less than,* or *equal to,* and then connect each angle to the correct label of acute, right, or obtuse. The first one has been completed for you.



4. 2. Use your right angle template to identify acute, obtuse, and right angles within the picture below. Trace at least two of each, label with points, and then name them in the table below the painting.



Acute angle	
Obtuse angle	
Right angle	

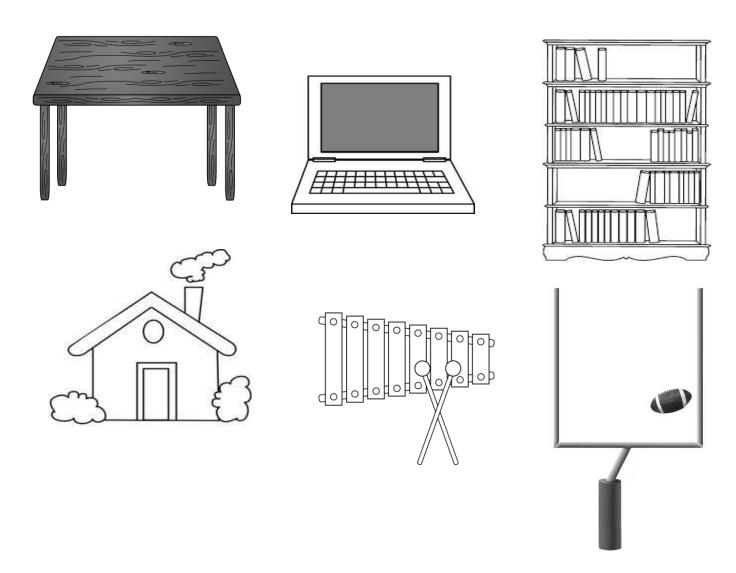
2.	Construct each of the following using a straightedge and that you created. Explain the characteristics of each by right angle. Use the words <i>greater than, less than,</i> or explanations.	comparing the angle to a
	a. Obtuse angle	
	An obtuse angle is	a right angle.
	b. Right angle	
	A right angle is	_ a right angle.
	c. Acute angle	

An acute angle is ______ a right angle.

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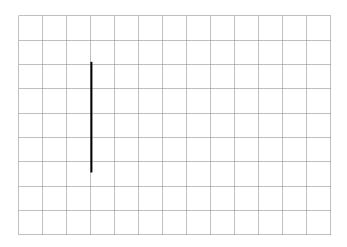
Name	Date

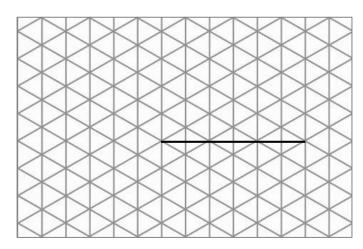
1. On each object, trace one pair of lines that appear to be perpendicular.



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

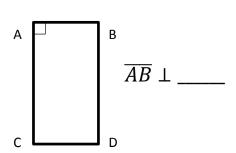
3. In the grids below, use the given segments in each grid to draw a line that is perpendicular. Use a straightedge.



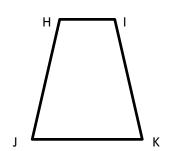


7. Use the right angle template that you created in class to determine which of the following figures have a right angle. Mark a right angle with a small square. Name a pair of perpendicular lines if the shape has right angles. Cross out shapes with no perpendicular lines. (The first problem has been started for you.)

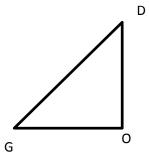
a.



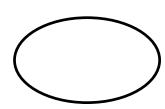
b.



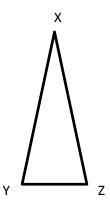
c.



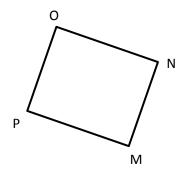
d.



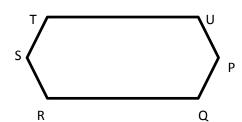
e.



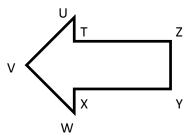
f.



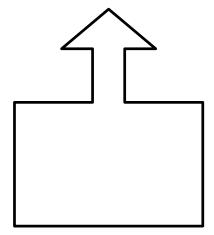
g.



h.



5. Use your right angle template as a guide, and mark each right angle in the following figure with a small square. (Note: A right angle does not have to be inside the figure.)





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









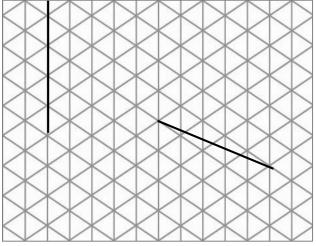




2.	How do you know if two lines are parallel?

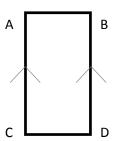
3. In the grids below, use the segments in each grid to draw a line that is parallel.





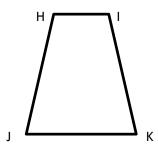
4. Determine which of the following figures have lines that are parallel. Mark a pair of parallel lines with arrowheads, and then identify the parallel lines with a statement. Cross off shapes that do not have parallel lines.

a.

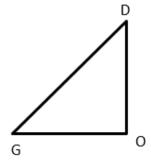


$$\overline{AB} \parallel \overline{BD}$$

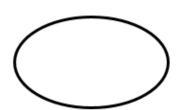
b.



c.



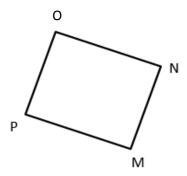
d.



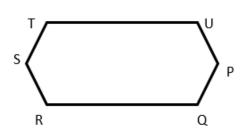
e.



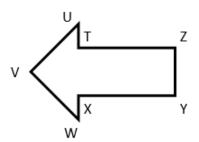
f.



g.



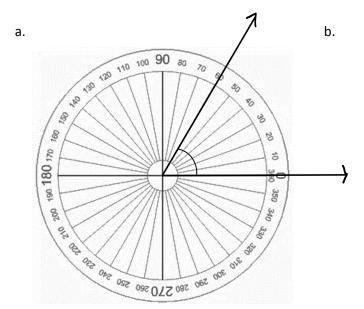
h.

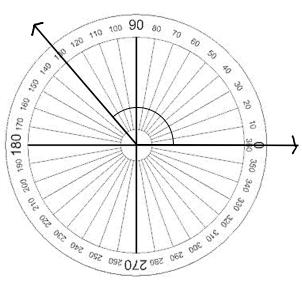


Date _____

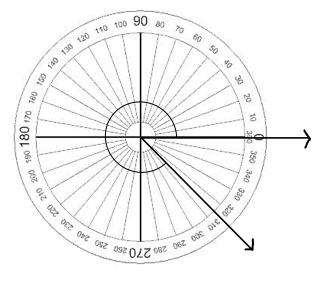
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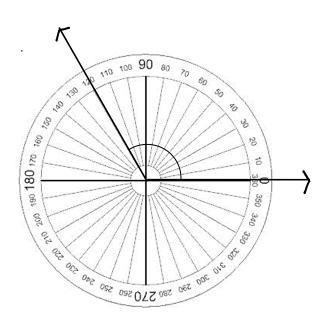
1. Identify the measures of the following angles.





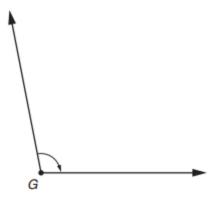
c.

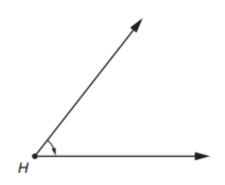




2. Circle the best estimate for the following angles.

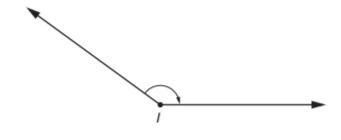
a.



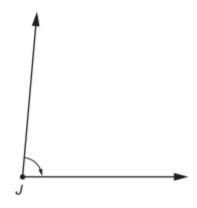


c.





d.



Name	Date

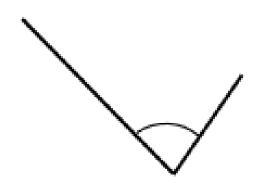


1. Use a protractor to measure the angles. Record the measurements in degrees. Round to the nearest 5 degrees.

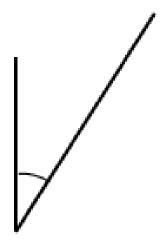
a.



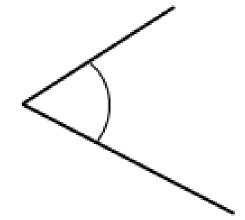
b.



c.



d.



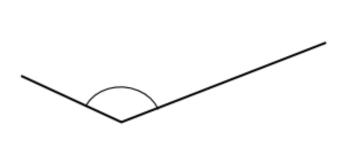
e.



f.



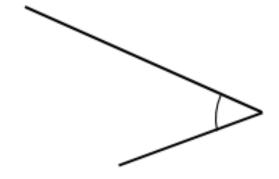
g.



h.



i.



j.





Name	Date

Construct angles that measure the given number of degrees. Draw an arc to indicate the angle that was measured.

1. **25°**

2. **85°**





з. **140°**

4. 80°





5. **110°**

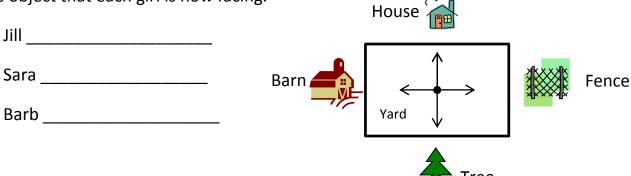
6. **70°**

7. **25°**

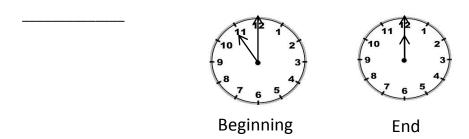
8. **155°**

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1. Jill, Sara, and Barb stood in the middle of the yard and faced the barn. Jill turned 90° to the right. Sara turned 180° to the left. Barb turned 270° to the left. Name the object that each girl is now facing.



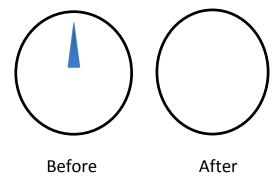
2. Allison looked at the clock at the beginning of class and at the end of class. How many degrees did the minute hand turn from the beginning of class until the end?



3. The snowboarder went off a jump and did a 180. In which direction was the snowboarder facing when he landed? How do you know?

4.	As she drove down the icy road, Mrs. Campbell slammed on her brakes.	Her car
	did a 360. Explain what happened to Mrs. Campbell's car.	

5. Jonah turned the knob of the stove two quarter-turns. Draw a picture showing the position of the knob after he turned it.



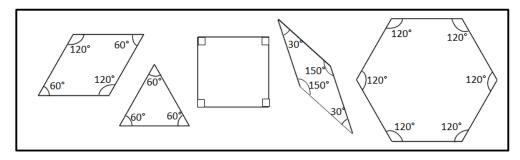
6. How many quarter-turns does the picture need to be rotated in order for it to be upright? _____



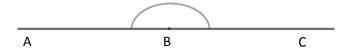


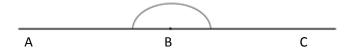
Name _____ Date ____

Sketch two different ways to compose the given angles using two or more pattern blocks. Write an addition sentence to show how you composed the given angle.

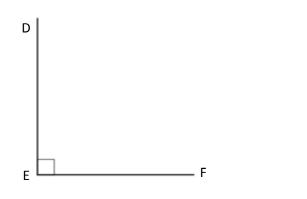


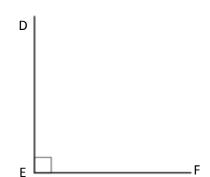
1. Points A, B, and C form a straight line.



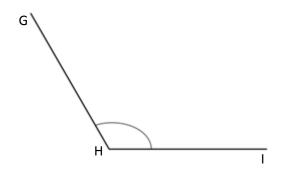


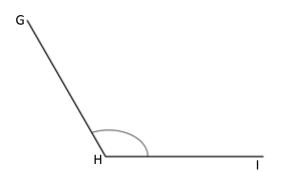
2. $\angle DEF = 90^{\circ}$



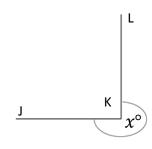


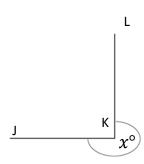
3. ∠ $GHI = 120^{\circ}$











4.
$$x^{\circ} = 270^{\circ}$$

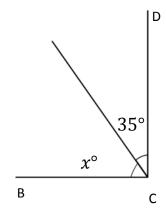


Name

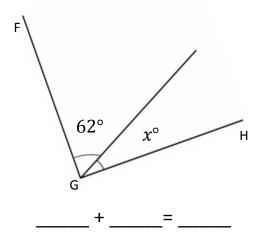
Date _____

Write an equation and solve for the measurement of $\angle x$.

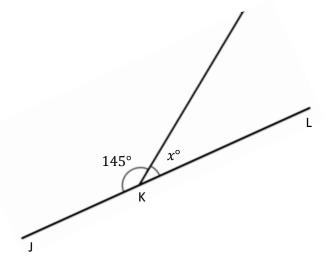
1. $\angle DCB$ is a right angle.



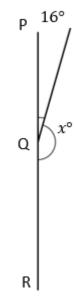
2. $\angle HGF$ is a right angle.



3. $\angle JKL$ is a straight angle.



4. $\angle PQR$ is a straight angle.

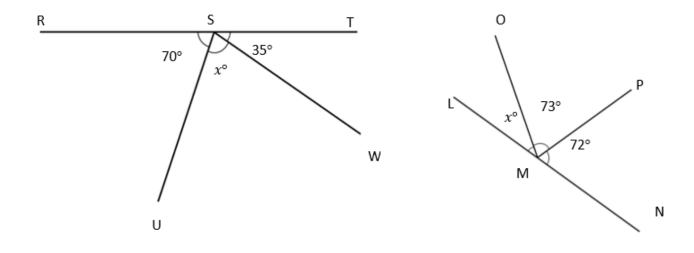


Write an equation and solve for the unknown angle measurements.

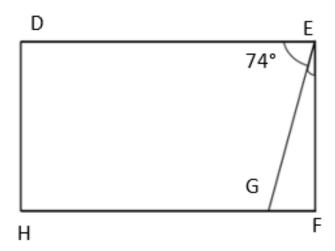
5. Solve for the measurement of $\angle USW$. 6. Solve for the measurement of $\angle OML$.

 $\angle RST$ is a straight angle.

 $\angle LMN$ is a straight angle.



7. In the following figure, DEFH is a rectangle. Without using a protractor, determine the measurement of $\angle GEF$. Write an equation that could be used to solve the problem.





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1. Circle the figures that have a correct line of symmetry drawn.



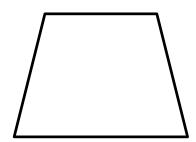


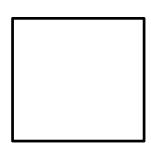


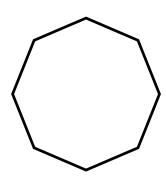


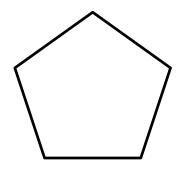


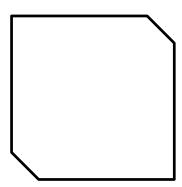
2. Find and draw all lines of symmetry for the following figures. Write the number of lines of symmetry for each shape.





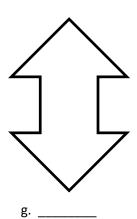


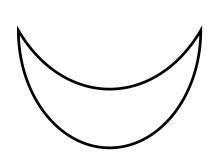


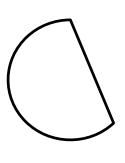


e. _____



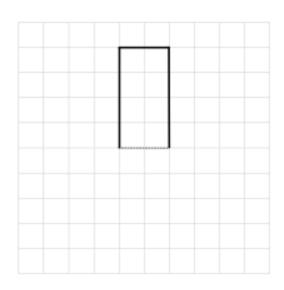




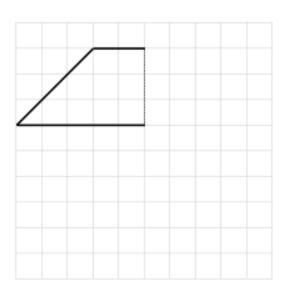


3. Half of each figure below has been drawn. Complete each figure.

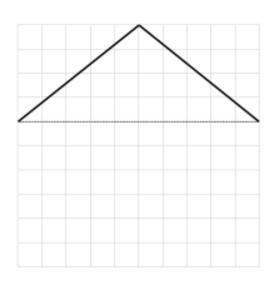
a)



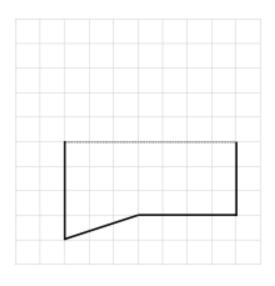
b)



c)



d)



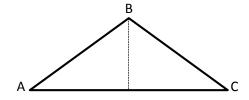
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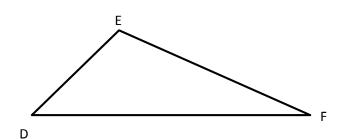
1. Classify each triangle by its side lengths and angle measurements. Circle the correct names.

		assify Using de Lengths			assify Us Measur	
a.	Equilateral	Isosceles	Scalene	Acute	Right	Obtuse
b.	Equilateral	Isosceles	Scalene	Acute	Right	Obtuse
c.	Equilateral	Isosceles	Scalene	Acute	Right	Obtuse
d.	Equilateral	Isosceles	Scalene	Acute	Right	Obtuse

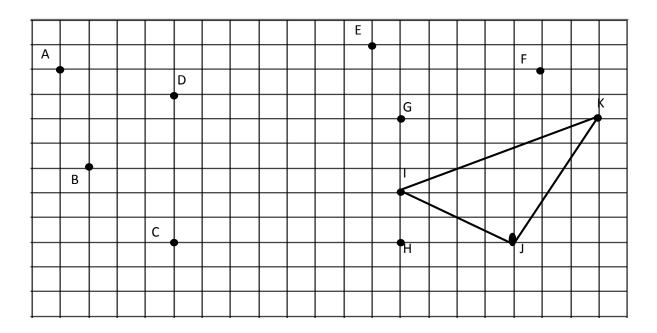
2. a. $\triangle ABC$ has one line of symmetry as shown. Is the measure of $\angle A$ greater than, less than, or equal to $\angle C$? $\angle A ____ \angle C$



b. ΔDEF is scalene. What do you observe about its angles?



3. Use a ruler to connect points to form two other triangles. Use each point only once. None of the triangles may overlap. Two points will not be used. Name and classify the three triangles below.



Name the Triangles Using Vertices	Classify by Side Length	Classify by Angle Measurement
ΔIJK		

- 4. If the perimeter of an equilateral triangle is 15 cm, what is the length of each side?
- 5. Can a triangle have more than one obtuse angle? Use a drawing to explain.