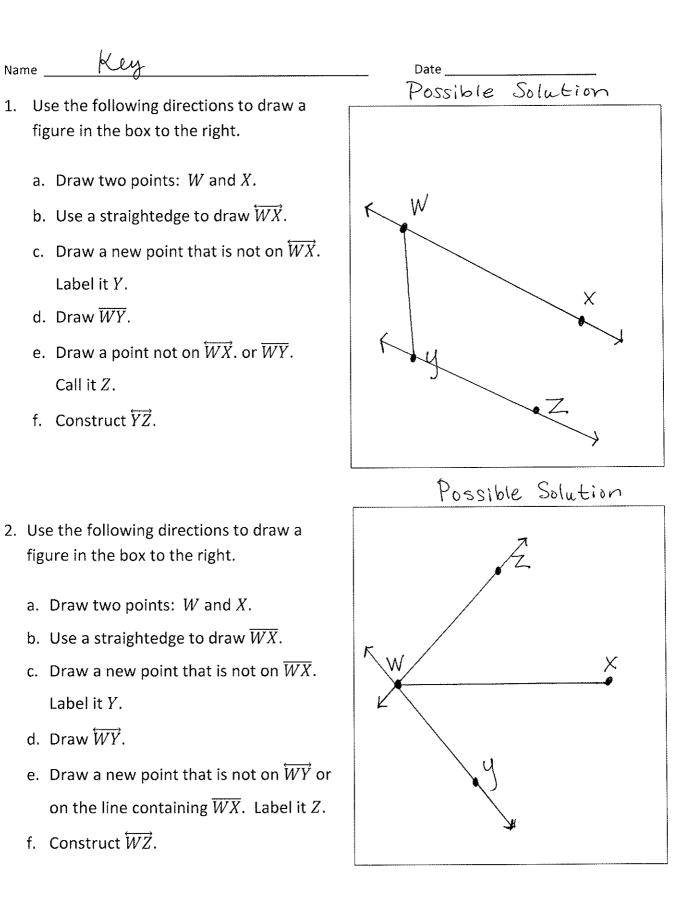
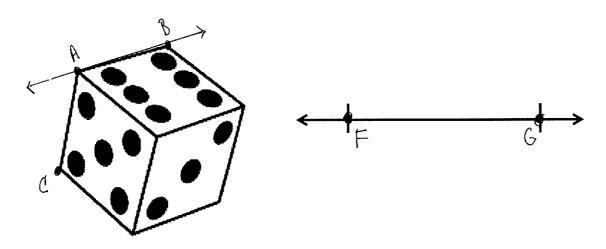
Lesson 1a Homework NYS COMMON CORE MATHEMATICS CURRICULUM



- 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.

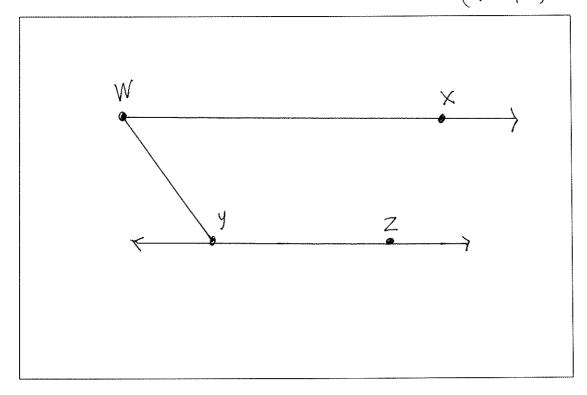


	Die	Number line
Point	C	F
Line	(AB)	FG
Line segment	AC	FG

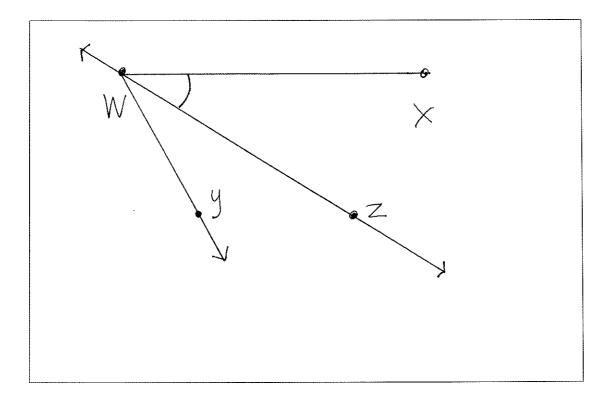
Name	Kei	r	Date	
	ſ			

- 1. Use 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 \overline{WX} .
 - c. Draw a new point that is not on ray \overline{WX} . Label it Y.
 - d. Draw line segment \overline{WY} .
 - e. Draw a point not on ray \overline{WX} or line segment \overline{WY} . Call it Z.
 - f. Construct line \overleftarrow{YZ} .

g. Use the points you've already labeled to name one angle. $\frac{\angle WYZ}{(e \times ample)}$

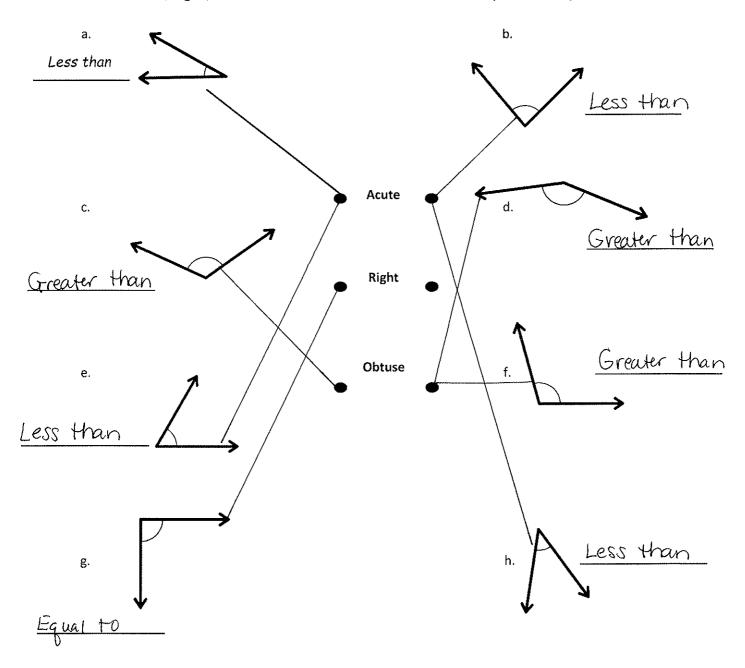


- 2. Use the following directions to draw a figure in the box below.
 - a. Draw two points: W and X.
 - b. Use a straightedge to draw line segment \overline{WX} .
 - c. Draw a new point that is not on line segment \overline{WX} . Label it Y.
 - d. Draw ray \overline{WY} .
 - e. Draw a new point that is not on ray \overline{WY} or on the line containing line segment \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.

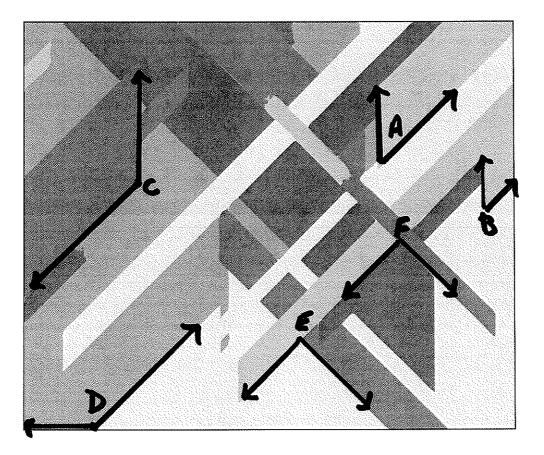


	CORE MATHEMATICS CURRI	COLOM	Lesson 2 Problem Set 404
Name	Key		Date

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.



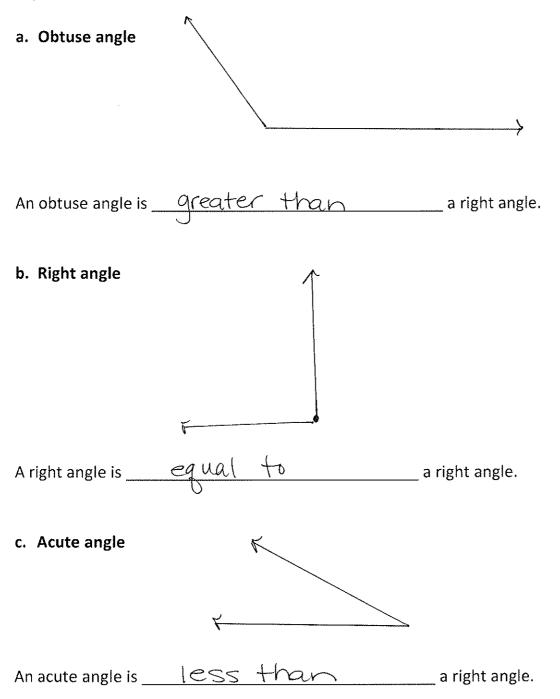
4. 2. Use your right angle template to identify acute, obtuse, and right angles within the picture below. Trace at least two of each, label with points, and then name them in the table below the painting.

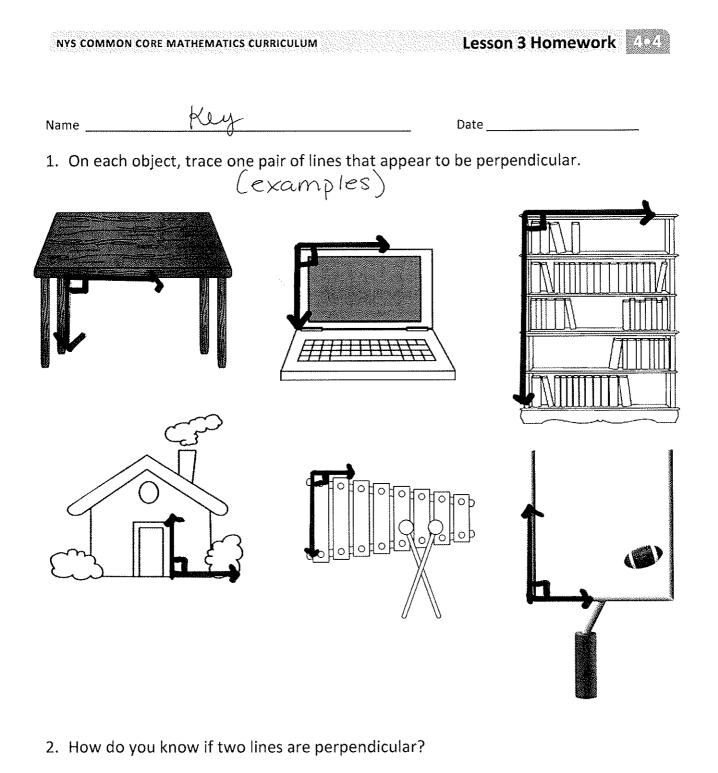


Acute angle	LA	∠B
Obtuse angle	LC	۷L
Right angle	LE	∠F

(examples)

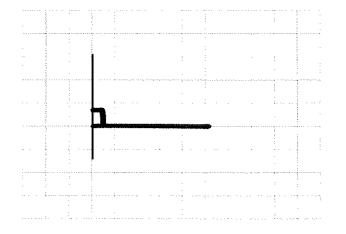
2. Construct each of the following using a straightedge and the right angle template that you created. Explain the characteristics of each by comparing the angle to a right angle. Use the words *greater than, less than,* or *equal to* in your explanations.

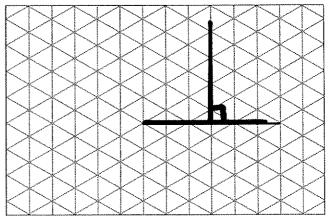




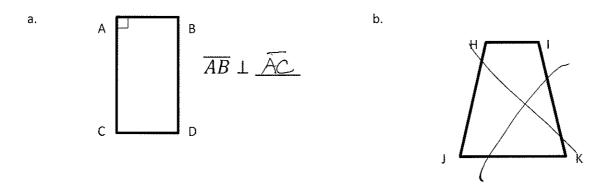
Two lines are perpendicular if they form right angles where they meet.

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

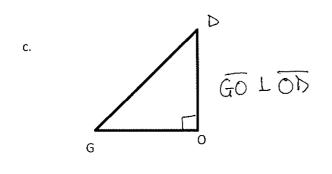


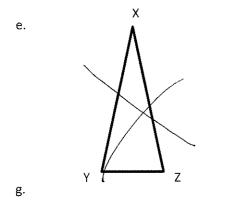


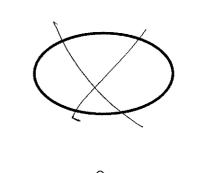
7. Use the right angle template that you created in class to determine which of the following figures have a right angle. Mark a right angle with a small square. Name a pair of perpendicular lines if the shape has right angles. Cross out shapes with no perpendicular lines. (The first problem has been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







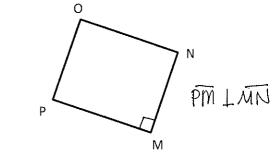


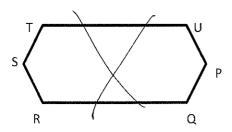


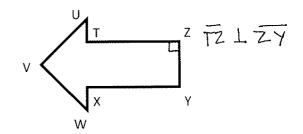
d.

f.

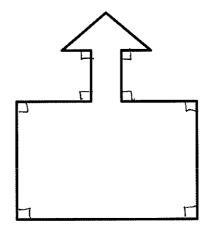
h.

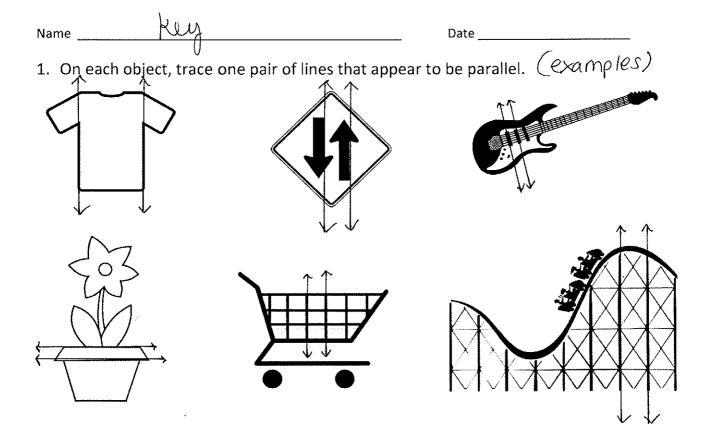






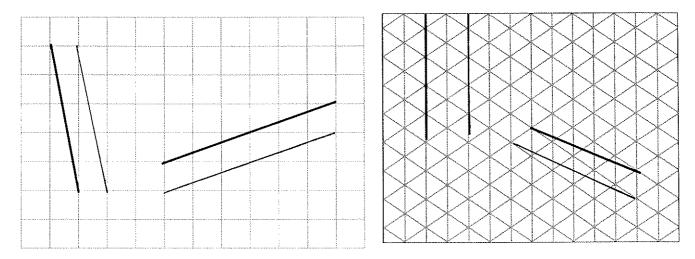
5. Use your right angle template as a guide, and mark each right angle in the following figure with a small square.(Note: A right angle does not have to be inside the figure.)





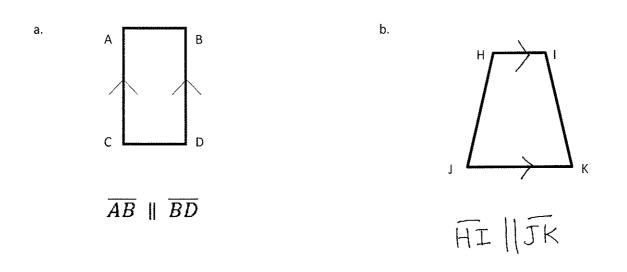
2. How do you know if two lines are parallel?

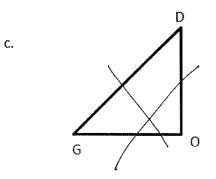
Lines are parallel if the stay the same distance apart and never cross each other.

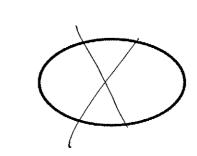


3. In the grids below, use the segments in each grid to draw a line that is parallel.

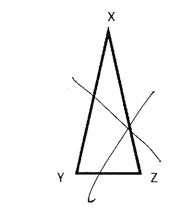
4. Determine which of the following figures have lines that are parallel. Mark a pair of parallel lines with arrowheads, and then identify the parallel lines with a statement. Cross off shapes that do not have parallel lines.



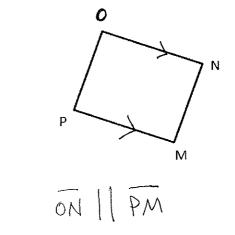


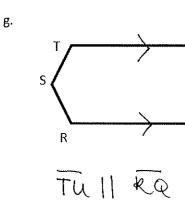


d.



e.





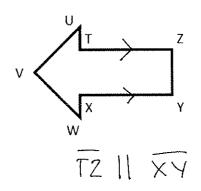
h.

11

Q

p

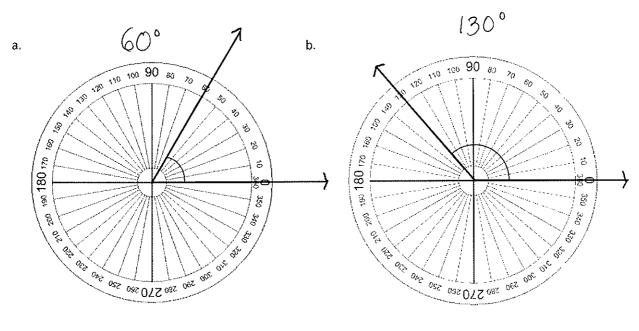
f.



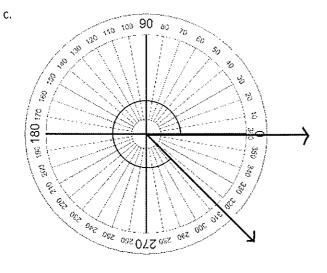


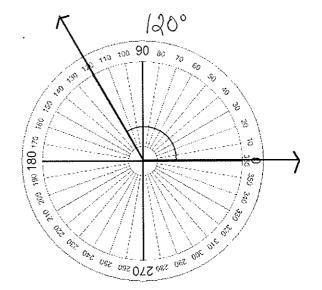
Date _____

1. Identify the measures of the following angles.

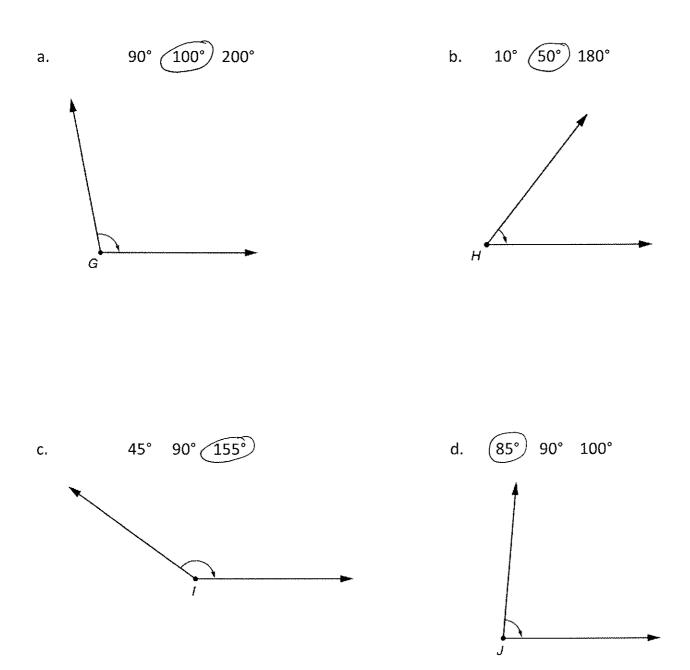


3150



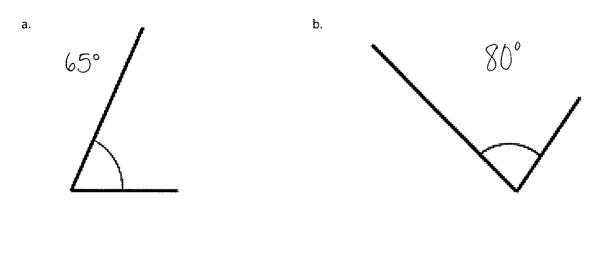


2. Circle the best estimate for the following angles.



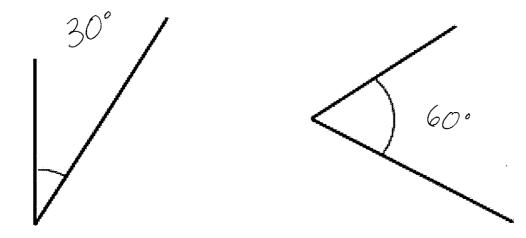
Name Kly Date _____

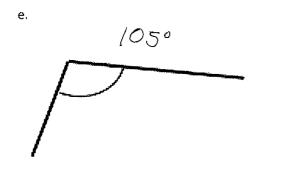
Use a protractor to measure the angles. Record the measurements in degrees.
Round to the nearest 5 degrees.

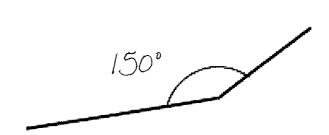


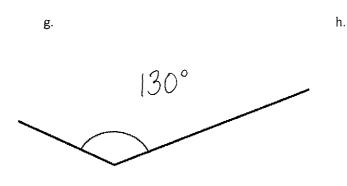
d.

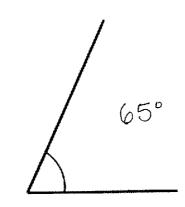
c.











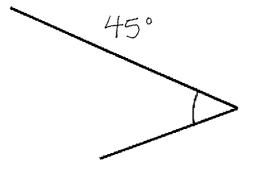


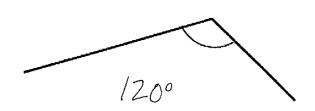




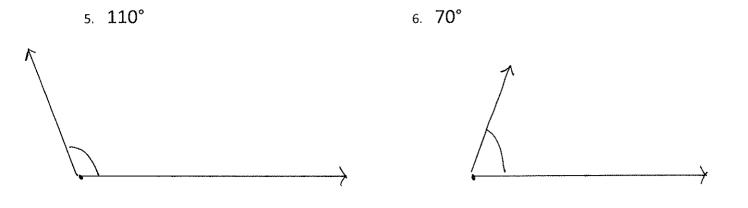
j.

f.



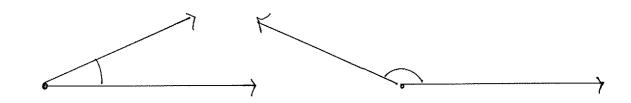


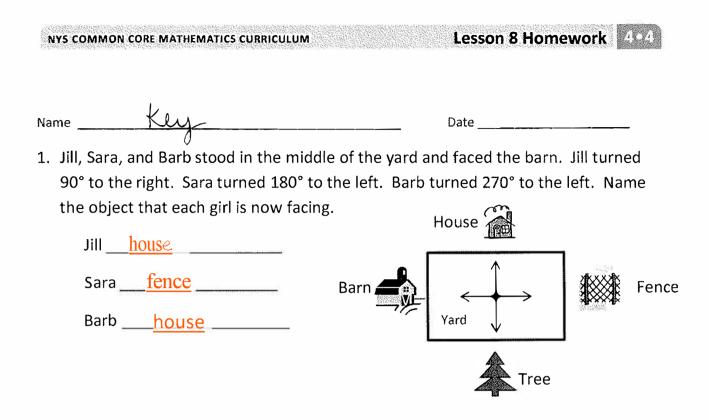
lameKUY	Date	
Construct angles that measured he angle that was measured	re the given number of degrees. Draw an arc to inc	dicat
	•	
1. 25°	2. 85°	
	\bigwedge	
	7	
	•	
a 140°	4. 80°	
з. 140°	4. 80	



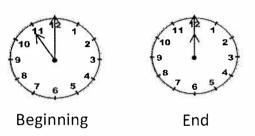
7. **25°**

8. **155°**

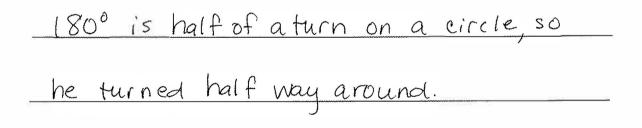




2. Allison looked at the clock at the beginning of class and at the end of class. How many degrees did the minute hand turn from the beginning of class until the end? 360°

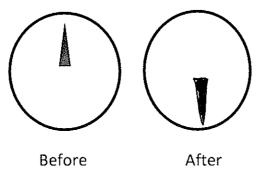


3. The snowboarder went off a jump and did a 180. In which direction was the snowboarder facing when he landed? How do you know?



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.



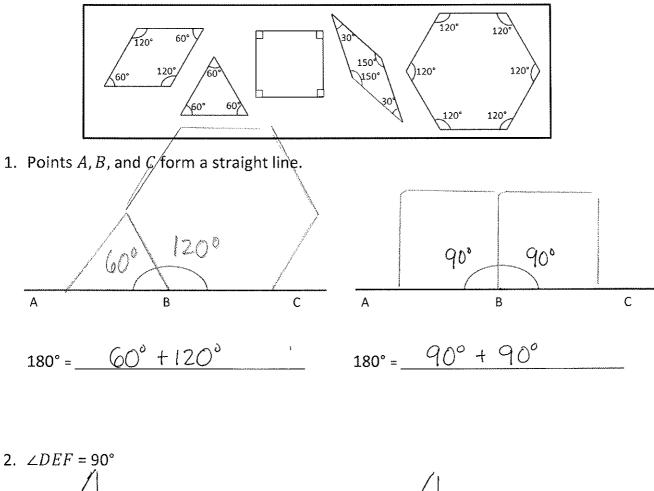
6. How many quarter-turns does the picture need to be rotated in order for it to be upright? <u>2 quarter turns</u>

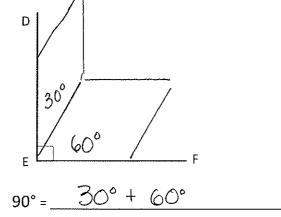


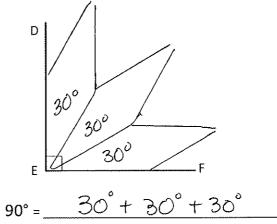
Name Key

Date _____

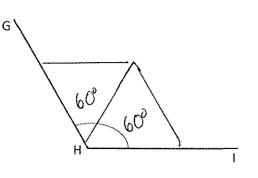
Sketch two different ways to compose the given angles using two or more pattern blocks. Write an addition sentence to show how you composed the given angle.

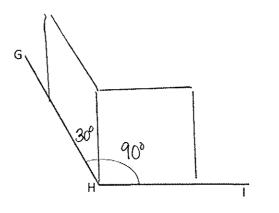




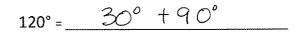


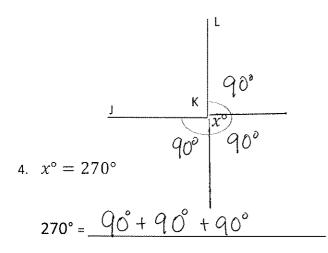
3. ∠*GHI* = 120°

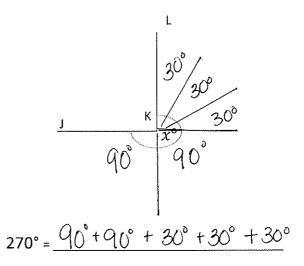




120°	=	60°	ł	60°		







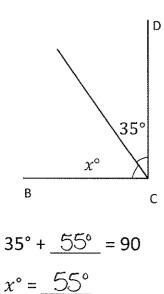
Name Ku

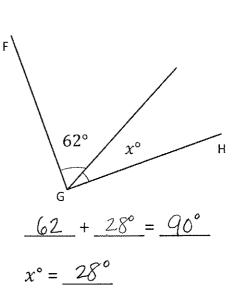
Date _____

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

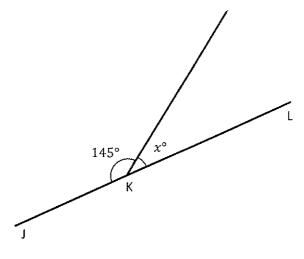
Write an equation and solve for the measurement of $\angle x$.

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



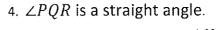


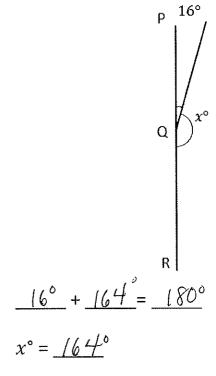
3. $\angle JKL$ is a straight angle.



$$145^{\circ} + 35^{\circ} = 180^{\circ}$$

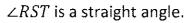
 $x^{\circ} = 35^{\circ}$



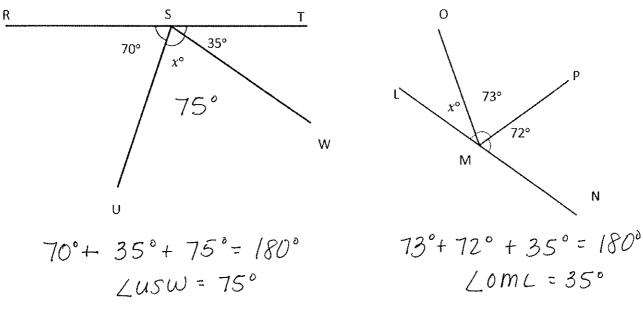


Write an equation and solve for the unknown angle measurements.

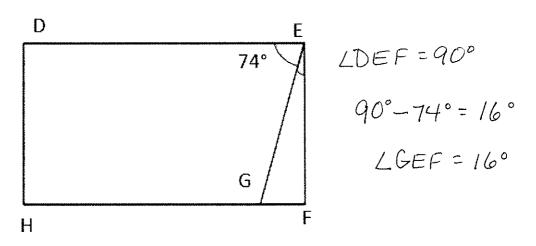
5. Solve for the measurement of $\angle USW$. 6. Solve for the measurement of $\angle OML$.



 $\angle LMN$ is a straight angle.

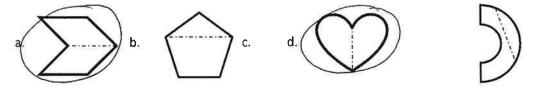


7. In the following figure, DEFH is a rectangle. Without using a protractor, determine the measurement of $\angle GEF$. Write an equation that could be used to solve the problem.

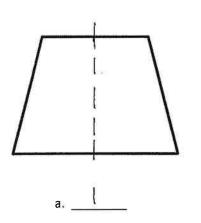


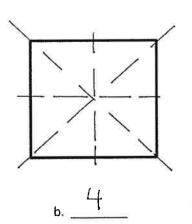


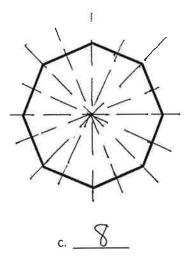
1. Circle the figures that have a correct line of symmetry drawn.

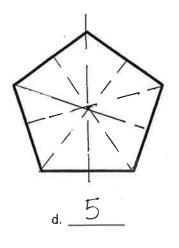


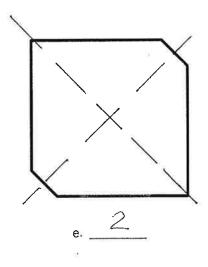
2. Find and draw all lines of symmetry for the following figures. Write the number of lines of symmetry for each shape.

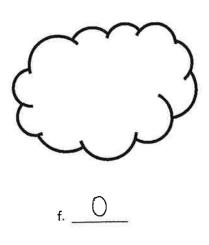


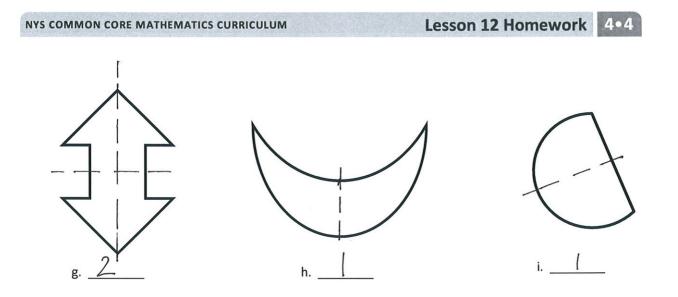




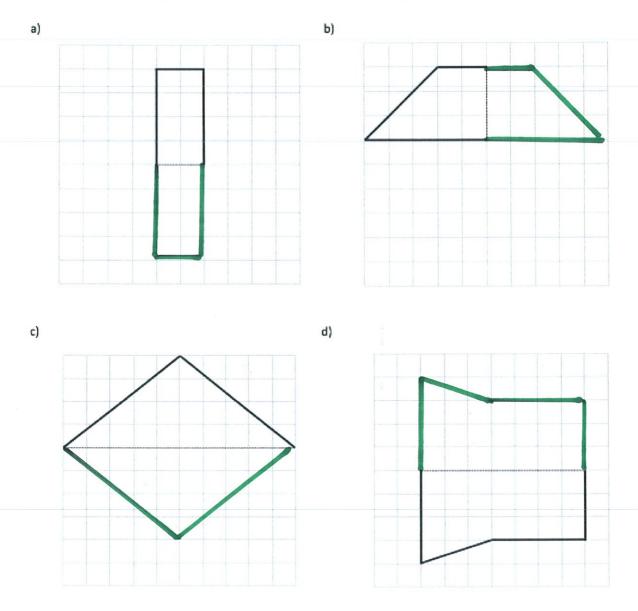








3. Half of each figure below has been drawn. Complete each figure.



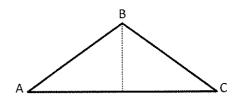
1

01 _____ Date _____ Name ____

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

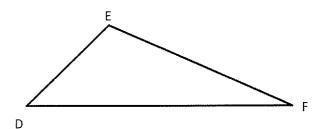
	Classify Using Side Lengths	Classify Using Angle Measurements
a.	Equilateral Isosceles Scalene	Acute Right Obtuse
b.	Equilateral Isosceles Scalene	Acute Right Obtuse
c.	Equilateral (Isosceles) Scalene	Acute Right Obtuse
d.	Equilateral Isosceles Scalene	Acute Right Obtuse

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

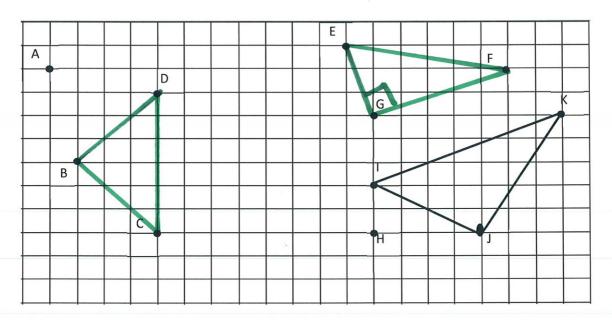


b. ΔDEF is scalene. What do you observe about its angles?

None of the angles are equal.



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. $(e \times amp(es))$



Name the Triangles Using Vertices	Classify by Side Length	Classify by Angle Measurement
ΔIJK	Scalene	Obtuse
ABCD	Isosceles	Acute
∆EGF	Scalene	Right

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

No. The two sides would never meet to make the third point.