

Name _____

Date _____

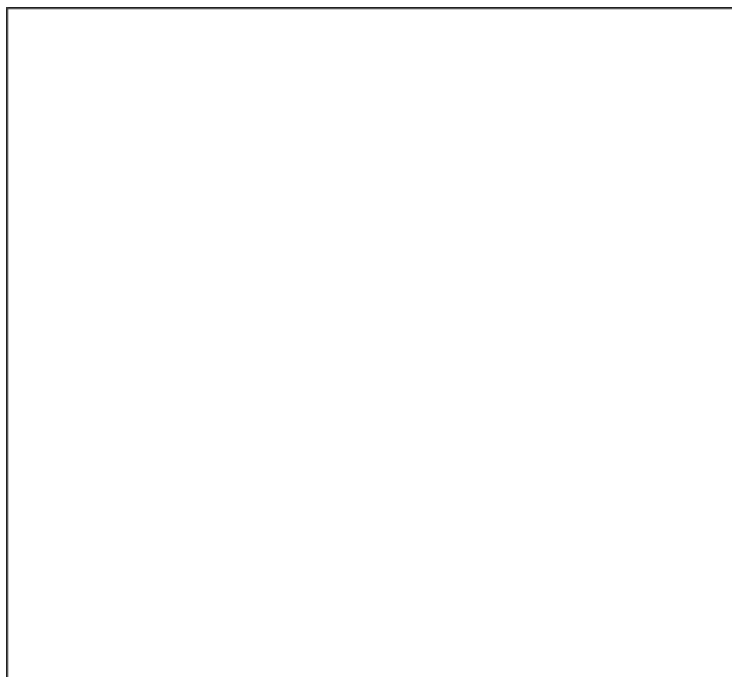
1. Follow the directions below to draw a figure in the box below. **Use a straightedge (ruler) .**

- a. Draw 2 points, X and Y
- b. Draw \overleftrightarrow{XY} .
- c. Draw point Z that is not on \overleftrightarrow{XY} .
- d. Draw YZ .
- e. Draw \overline{XZ} .

(You may need to draw and label another point to answer the next two questions.)

- f. Name an obtuse angle.

- g. Name an acute angle.



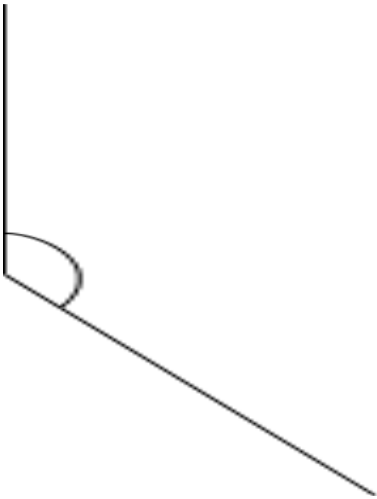
2. Use your **protractor** to measure the angle indicated by the arc. Classify each angle as **right**, **acute**, or **obtuse**. **Explain** how you know each angle's classification.

- a.

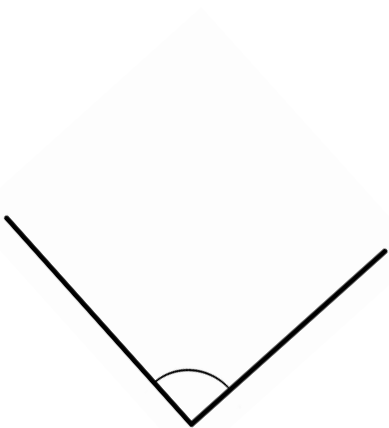


Reminder: Use your **protractor** to measure the angle indicated by the arc. Classify each angle as **right**, **acute**, or **obtuse**. **Explain** how you know each angle's classification.

b.



c.



3. Use the following instructions to draw a figure in the box below.

- Using a straightedge (ruler), draw a line. Label it AB .
- Label a point A on AB .
- Using your protractor and ruler, draw a line perpendicular to AB through point C .
- Label the perpendicular line DE .
- Label a point F on DE , other than point C .
- Using your protractor and straightedge, draw a line, GH , perpendicular to DE through point F .



Which lines are **parallel** in your drawing? Explain why.

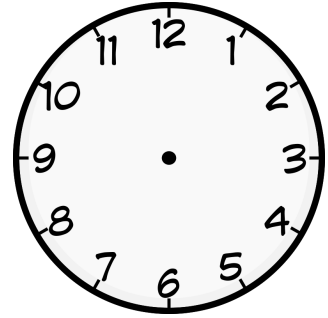
4. Use the clock to answer the following:

a. Use a straightedge to **draw the hands on the clock** as they would appear at 9:00.

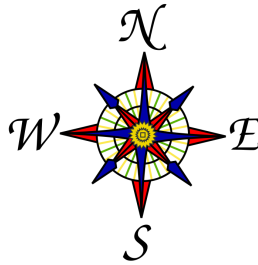
b. What kind of angle is formed by the clock hands at 9:00?

c. Starting with that time, will it be when the minute hand has turned 180° ?

d. How many 90° turns will the minute hand make between 9:00 and 10:00?



5. Use the compass rose to answer the following:



a. Chris faced South. He turned to his right until he was facing North.

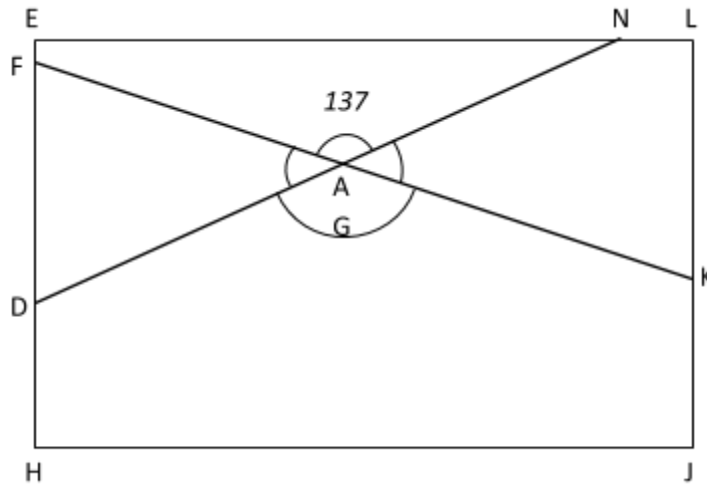
How many degrees did he turn? _____

b. Karen was facing West. She turned toward her left until she faced South. Sarah was facing North. She turned toward her right until she faced East.

What **fraction of a full turn** did each girl complete? _____

Through **how many degrees** did each girl turn? _____

6. The city of San Jose has a large rectangular park with a running track around its perimeter and two straight-line cross walks that cut across it as shown in the diagram below.



- a. Find the measure of the following angles using a protractor.

$\angle FAD$:

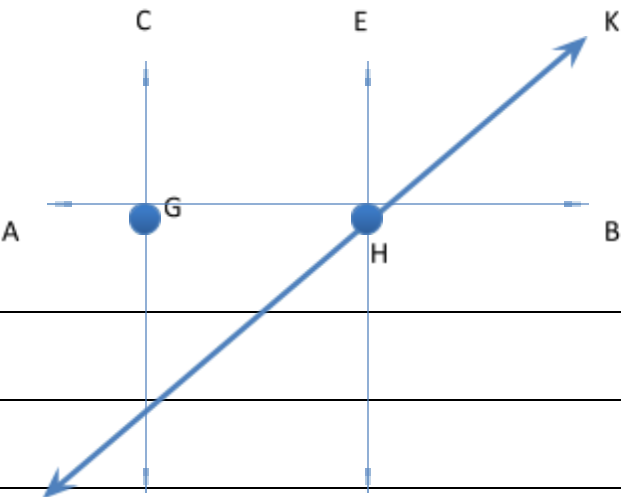
$\angle DAK$:

$\angle KAN$:

- b. In the space below, use a protractor to draw an angle with the same measure as $\angle DAK$.



- c. Using the points in the figure below, identify a line segment, a right angle, an obtuse angle, a set of parallel lines, and a set of perpendicular lines. Write them in the table below.



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F

