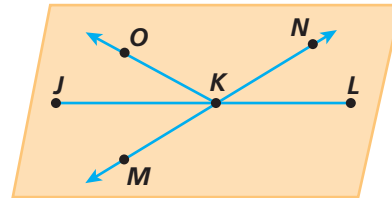


# CRCT GPS Practice Chapter 8

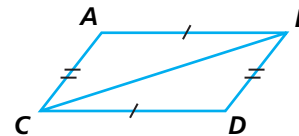
## LESSON 8-1

Identify the figures in the diagram.

1. three points
2. a line
3. a plane
4. three rays
5. three line segments

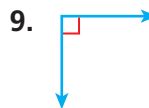
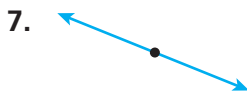


6. Identify the line segments that are congruent in the figure.



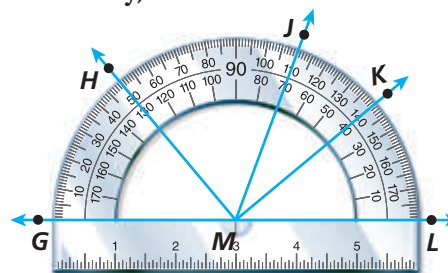
## LESSON 8-2

Tell whether each angle is acute, right, obtuse, or straight.



Use the diagram to tell whether the angles are complementary, supplementary, or neither.

11.  $\angle GMH$  and  $\angle HMJ$
12.  $\angle HMJ$  and  $\angle JMK$
13.  $\angle LMK$  and  $\angle GMK$
14.  $\angle JMK$  and  $\angle KML$

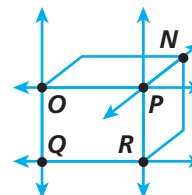


15. Angles Q and S are complementary. If  $m\angle Q$  is  $77^\circ$ , what is  $m\angle S$ ?
16. Angles M and N are supplementary. If  $m\angle M$  is  $17^\circ$ , what is  $m\angle N$ ?

## LESSON 8-3

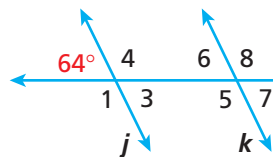
Tell whether the lines appear parallel, perpendicular, or skew.

17.  $\overleftrightarrow{PN}$  and  $\overleftrightarrow{QR}$
18.  $\overleftrightarrow{OQ}$  and  $\overleftrightarrow{QR}$
19.  $\overleftrightarrow{OP}$  and  $\overleftrightarrow{QR}$
20.  $\overleftrightarrow{PN}$  and  $\overleftrightarrow{OQ}$



Line  $j \parallel$  line  $k$ . Find the measures of each angle.

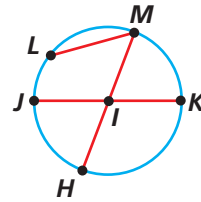
21.  $\angle 1$
22.  $\angle 3$
23.  $\angle 8$



## LESSON 8-4

Name the parts of circle  $I$ .

24. radii                      25. diameters                      26. chords





## LESSON 8-5

Determine whether each figure is a polygon. If it is not, explain why not.

27.                       28.                       29. 

Name each polygon.

30.                       31.                       32. 


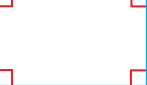


## LESSON 8-6

Classify each triangle according to its sides and angles.

33.                       34.                       35.                       36. 

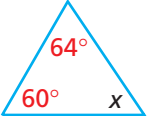
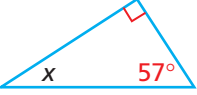
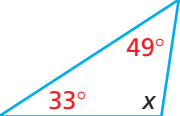

## LESSON 8-7

Give all of the names that apply to each quadrilateral. Then give the name that best describes it.





37.                       38.                       39.                       40. 

## LESSON 8-8

Find the unknown angle measure in each triangle.

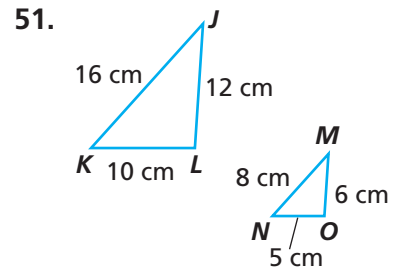
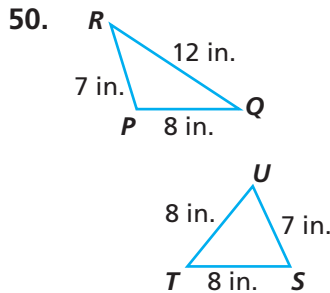
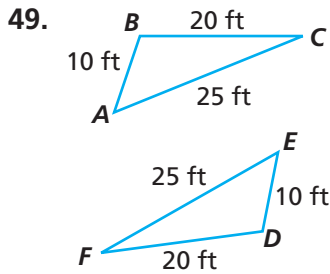
41.                       42.                       43.                       44. 

Divide each polygon into triangles to find the sum of its angle measures.

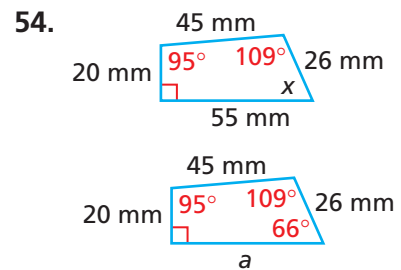
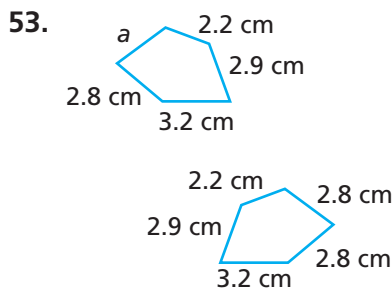
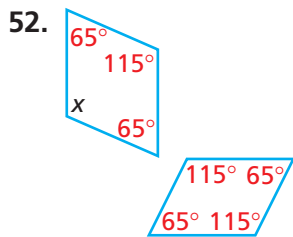
45.                       46.                       47.                       48. 

## LESSON 8-9

Determine whether the triangles are congruent.



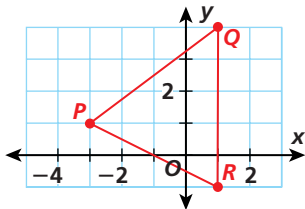
Determine the missing measure(s) in each set of congruent polygons.



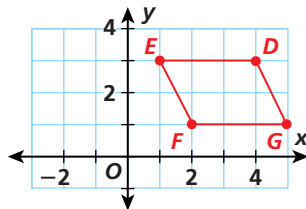
## LESSON 8-10

Graph each transformation.

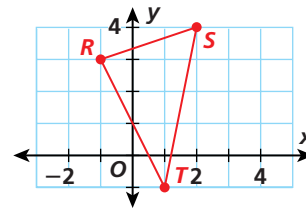
55. Rotate  $\triangle PQR$   $90^\circ$  counter-clockwise about vertex  $R$ .



56. Reflect the figure across the  $y$ -axis.



57. Translate  $\triangle RST$  3 units right and 3 units down.



## LESSON 8-11

Decide whether each figure has line symmetry. If it does, draw all the lines of symmetry.



Tell how many times each figure will show rotational symmetry within one full rotation.

