



Homework 14-2

Line Segments, Rays, and Angles

Another Look!

Here are some important geometric terms.



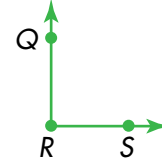
Line segment

A line segment is part of a line. It has two endpoints. This is line segment XY .



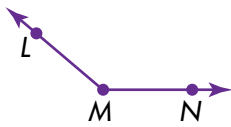
Ray

A ray is part of a line. It has one endpoint and goes on and on in one direction. This is ray AB .



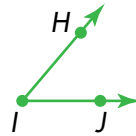
Right angle

A right angle is a square corner. This is angle QRS .



Obtuse angle

An obtuse angle is greater than a right angle. This is angle LMN .



Acute angle

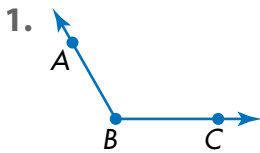
An acute angle is less than a right angle. This is angle HIJ .



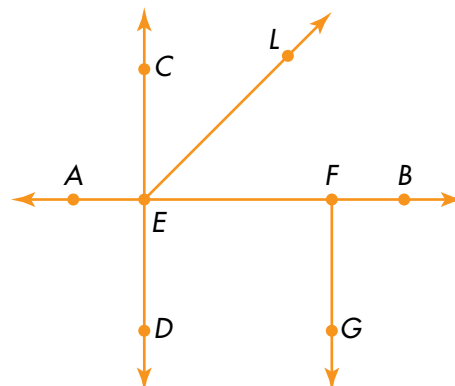
Straight angle

A straight angle forms a line. This is angle STU .

In **1** through **3**, use geometric terms to describe what is shown. Be as specific as possible.

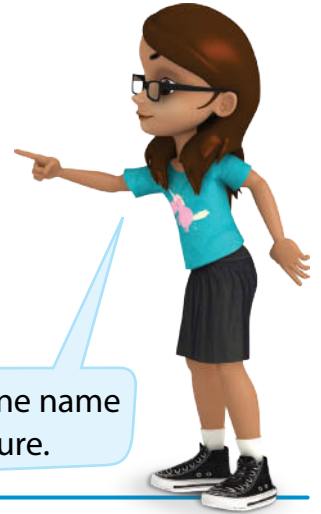
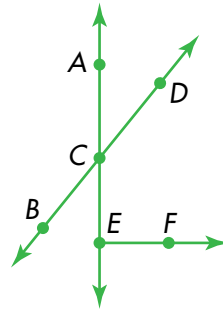


- Name three different rays.
- Name two different line segments.
- Name two different acute angles.



In 7 through 9, use the diagram to the right.

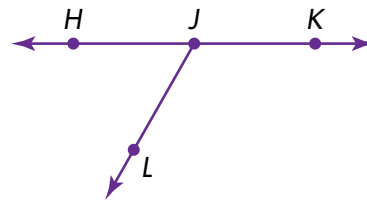
7. **Analyze Information** Name two line segments.
8. **Analyze Information** Name two obtuse angles.
9. **Reason** Name one point that lies on two lines.



There may be more than one name for the same geometric figure.

10. Which is the geometric term for angle HJK ?

- A Acute angle
- B Obtuse angle
- C Right angle
- D Straight angle

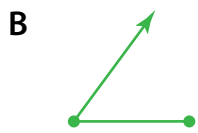
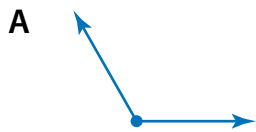


11. **Explain** Describe an acute angle.

12. **Explain** What is the difference between a line and a line segment?

13. Lisa drew 2 rays that share an endpoint.

Which of the following is Lisa's drawing?



14. **Extend Your Thinking** Nina says she can make a right angle by drawing an acute angle and an obtuse angle that share a common ray. Is she correct? Draw a picture and explain your reasoning.