

Homework & Practice 15-1

Lines, Rays, and Angles

Another Look!

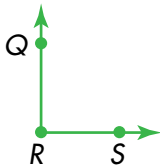
Here are some important geometric terms.



• C

Point

A point is an exact location in space. This is point C.



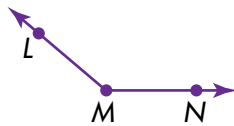
Right angle

A right angle forms a square corner. This is $\angle QRS$.



Line

A line is a straight path of points that goes on and on in opposite directions. This is \overleftrightarrow{AB} .



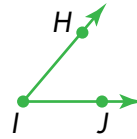
Obtuse angle

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



Line segment

A line segment is part of a line. It has two endpoints. This is \overline{XY} .



Acute angle

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



Ray

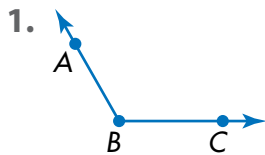
A ray is part of a line. It has one endpoint and goes on and on in one direction. This is \overrightarrow{AB} .



Straight angle

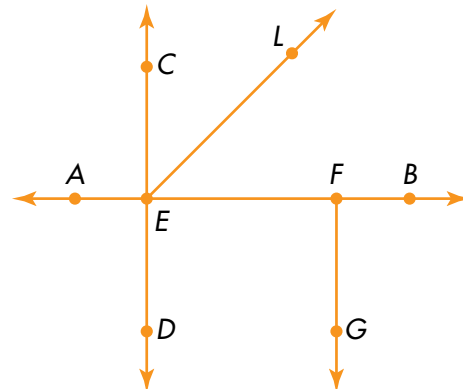
A straight angle forms a straight line. This is $\angle STU$.

For 1–3, use geometric terms to describe what is shown. Be as specific as possible.

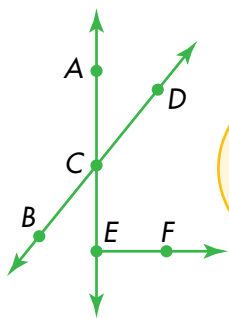


For 4–6, use the diagram at the right.

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



For 7–9, use the diagram at the right.

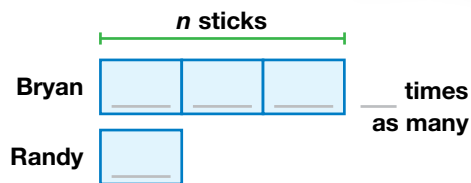


There may be more than one name for the same geometric figure.



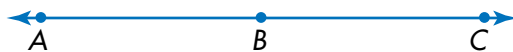
- 7. Name two lines.
- 8. Name two obtuse angles.
- 9. Name one point that lies on two lines.

10. **MP.4 Model with Math** Randy used 92 sticks to build a model. Bryan used 3 times as many sticks. Complete the bar diagram to represent how many sticks Bryan used. Then find how many more sticks Bryan used than Randy. Write and solve equations.



11. **A-Z Vocabulary** What is the difference between a *line* and a *line segment*? Draw an example of each.

12. **Higher Order Thinking** Name two rays with the same endpoint in the figure below. Do they form an angle? Explain.



Common Core Assessment

13. What is the name for the figure shown below?



- (A) Ray GH
- (B) Line GH
- (C) Line Segment HG
- (D) Angle GH

14. Mary drew \overleftrightarrow{XY} . Which of the following is Mary's drawing?

- (A) $\bullet X$
- (B)
- (C)
- (D)