

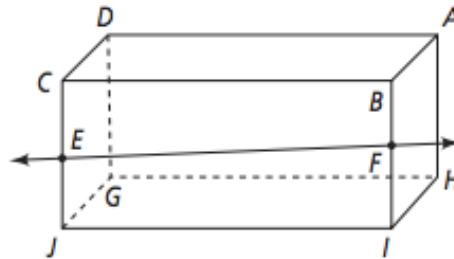
Name: \_\_\_\_\_  
 Geometry

Date: \_\_\_\_\_  
 Band: \_\_\_\_\_

**Unit 1: Tools of Geometry**

**LT#1:** Understand basic terms and postulates of geometry.

1. Name all the segments and rays in the figure.



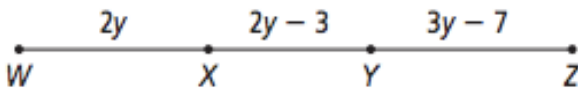
- A. Name a pair of intersecting planes.
  - B. Name a plane that is parallel to the plane that contains  $\overleftrightarrow{EF}$ .
  - C. Name a line that is skew to  $\overleftrightarrow{AH}$ .
2. Two distinct non-parallel planes always intersect at a \_\_\_\_\_.
3. Segment  $\overline{AB}$  contains midpoint  $P$ . Which does NOT properly name the line containing  $\overline{AB}$ ?
- A.  $\overleftrightarrow{AB}$
  - B.  $\overleftrightarrow{PA}$
  - C.  $\overleftrightarrow{APB}$
  - D.  $\overleftrightarrow{BA}$
4. Two of what geometric figure are joined at a vertex to form an angle?

**LT#2:** Find and compare lengths of segments.

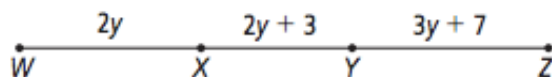
5. If  $DM = 37$ , find the value of  $r$ .



6. If  $WZ = 46$ , what is the value of  $y$ ?

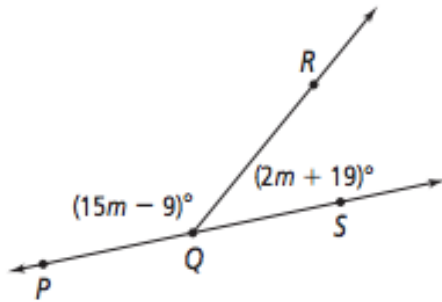


7. If  $WZ = 80$ , what is the value of  $y$ ?



**LT#3:** Find and compare the measures of angles.

8. What is  $m\angle PQR$ ?

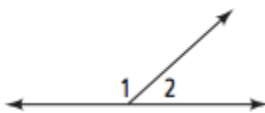


**LT#4:** Identify special angle pairs and use their relationship to find angle measures.

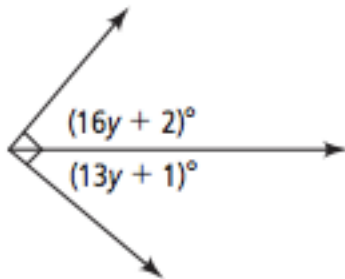
9.  $\angle A$  and  $\angle B$  are supplementary congruent angles. What is  $m\angle B$ ?

10. What is the measure of the complement of  $27^\circ$ ?

11.  $\angle 1$  and  $\angle 2$  are \_\_\_\_\_ angles.



12. What is the value of  $y$  in the diagram?



**LT#6:** Find the midpoint of a segment.

13. What is the other endpoint of a segment with an endpoint at  $(4,4)$  and a midpoint at  $(-2,-1)$ ?

14. A segment has a midpoint  $(-2,9)$  and one endpoint  $(2,8)$ . What is the coordinate of the other endpoint?

15. What is the midpoint of a segment with endpoints at  $(-2,2)$  and  $(5,10)$ ?

**LT#7:** Find the distance between two points in the coordinate plane.

16. What is the length of a segment with endpoints at  $(-3,5)$  and  $(4,5)$ ?