

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

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

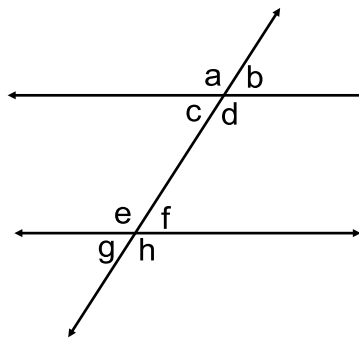
Period: \_\_\_\_\_

Study Guide for Geometry Quiz #1

Fill in the blank (#1-5).

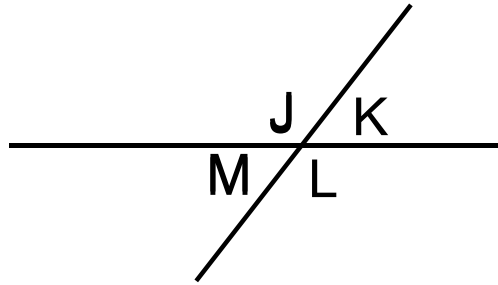
- 1.) Complementary angles have a sum of exactly \_\_\_\_\_.
- 2.) Supplementary angles have a sum of exactly \_\_\_\_\_.
- 3.) Two lines are \_\_\_\_\_ if they are in the same plane and do not intersect.
- 4.) Two lines are \_\_\_\_\_ if they intersect and form right angles.
- 5.) \_\_\_\_\_ angles are opposite and congruent.

Use the following figure to complete the table questions # 6-11.

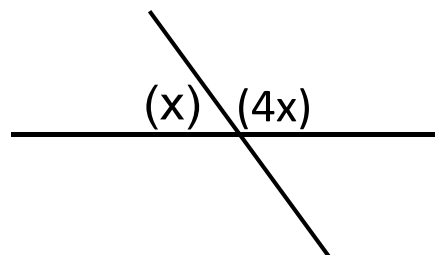


Angle Pair	Relationship
6.) $\angle a = \angle d$	
7.) $\angle b = \angle f$	
8.) $\angle c = \angle g$	
9.) $\angle a = \angle h$	
10.) $\angle f = \angle g$	
11.) $\angle a = \angle b$	

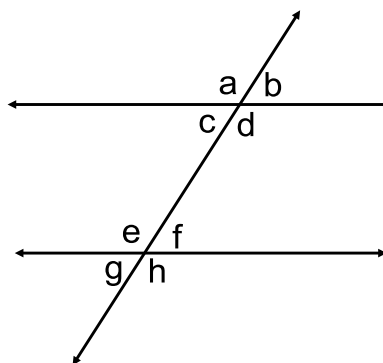
Use the following figure to answer questions #12-13.



- 12.) If  $\angle K$  measures  $67^\circ$ , what is the measure of  $\angle M$ ? Name the relationship.
- 13.) If  $\angle J$  measures  $117^\circ$ , what is the measure of  $\angle K$ ? Name the relationship.
- 14.) What symbol stands for “is parallel to”? \_\_\_\_\_
- 15.) What symbol stands for “is perpendicular to”? \_\_\_\_\_

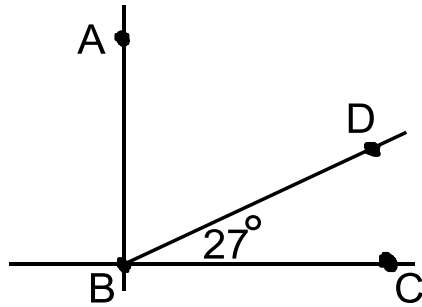


- 16.) Suppose the diagram above shows the intersection of two neighborhood streets in Jersey City. What is the value of  $x$ ?

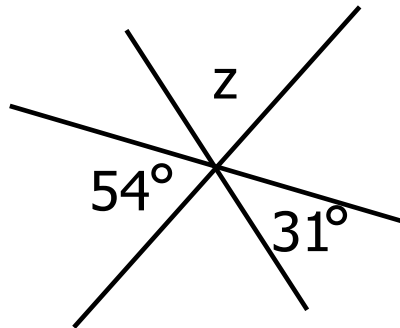


- 17.) If  $\angle g = 63^\circ$ , find the following:
- |                                       |                                       |
|---------------------------------------|---------------------------------------|
| $\angle a = \underline{\hspace{2cm}}$ | $\angle e = \underline{\hspace{2cm}}$ |
| $\angle b = \underline{\hspace{2cm}}$ | $\angle f = \underline{\hspace{2cm}}$ |
| $\angle c = \underline{\hspace{2cm}}$ | $\angle h = \underline{\hspace{2cm}}$ |
| $\angle d = \underline{\hspace{2cm}}$ |                                       |

Use the following figure to answer question #18.



- 18.) AB is perpendicular to BC and  $m\angle DBC = 27^\circ$ . Find the  $m\angle ABD$ .



- 19.) Find  $z$  in the figure above.