



# Geometry & Measurement Student Activity

## Angles and Lines 4

This worksheet reviews the new material covering lines and angles from the Gr. 9 math program. Use these questions to test your understanding.

1. Identify one example of each of the following.

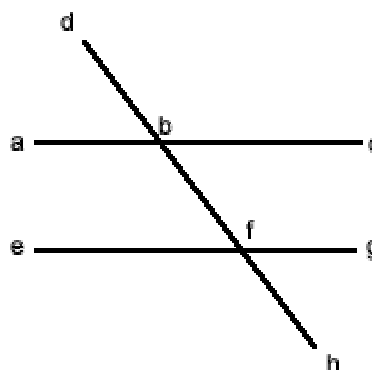
1. alternate interior angles

2. alternate exterior angles

3. the transversal

4. corresponding angles

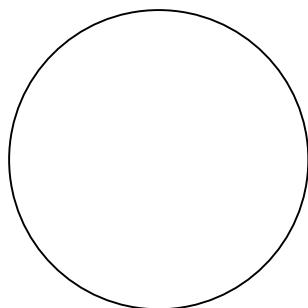
5. same side interior angles



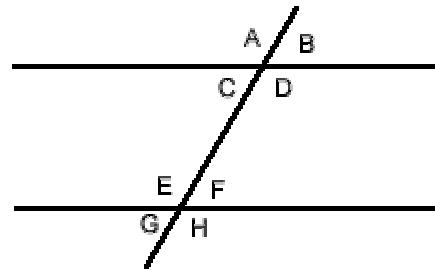
2. Construct and label a bisector to the line below.



3. Draw and label a secant and chord on the circle below.



4. When the vertex of an angle is the centre of a circle, what do we call that angle?
5. Construct an example of a bisector where the original angle has a measure of 76 degrees.
6. Identify the angles in the diagram below where  $\angle A = 120^\circ$ . Justify your answers in terms of the relationships between angles.



7. Answer the following.

If  $\angle P$  is opposite to an angle of 60 degrees  $\angle P =$  \_\_\_\_\_

If  $\angle S$  is alternate to an angle of 43 degrees  $\angle S =$  \_\_\_\_\_

If  $\angle R$  is complementary to an angle of 55 degrees  $\angle R =$  \_\_\_\_\_

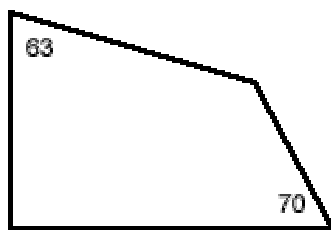
If  $\angle Q$  is alternate to an angle of 90 degrees what is the measure of any corresponding angle is equal to \_\_\_\_\_

8. Form a parallel line to the original that runs through the point given.

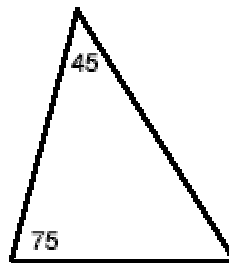


9. Identify the missing angles.

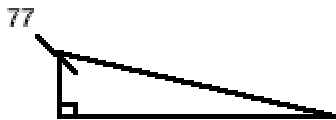
A.



B.



C.



D.

