

## Handout 2: Try It, You'll Like It - Answers

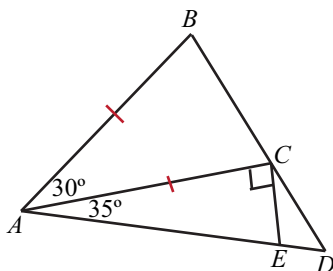


Figure 1

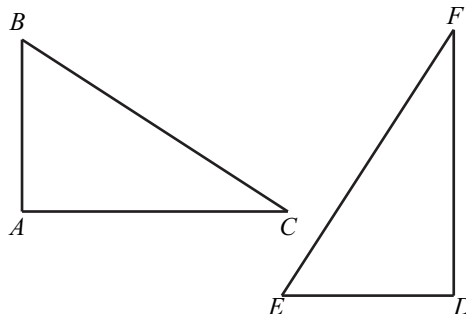
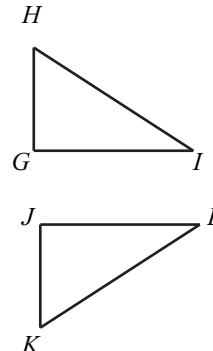


Figure 2



1. In  $\triangle ABC$ ,  $\angle A$  measures  $38^\circ$  and  $\angle B$  measures  $27^\circ$ . How would it be classified according to its sides and angles?  
Obtuse scalene
2. A triangle has side lengths of 15 cm, 15 cm, and 15 cm. What are the measures of its interior angles?  
All three interior angles measure  $60^\circ$ .
3. How would you classify a triangle with two congruent side lengths and two angles that measure  $55^\circ$  and  $70^\circ$ ?  
Acute isosceles
4. A right triangle has an exterior angle of  $135^\circ$ . Is it scalene, isosceles, or equilateral?  
Isosceles

Use Figure 1 for questions 5-7.

5. Classify  $\triangle ABC$  according to its side lengths and angles.

Acute isosceles

6. Classify  $\triangle ACE$  according to its side lengths and angles.  
Right scalene
7. Classify  $\triangle CDE$  according to its side lengths and angles.  
Obtuse scalene

Use the Figure 2 for questions 8-10.

8. Name the congruent triangles in the image.  
 $\triangle ABC \cong \triangle DEF$  and  $\triangle GHI \cong \triangle JKL$ .
9. Which transformation(s) has been applied to  $\triangle ABC$  resulting in  $\triangle DEF$ ?  
Rotation and translation
10. Which transformation(s) has been applied to  $\triangle GHI$  resulting in  $\triangle JKL$ ?  
Reflection