

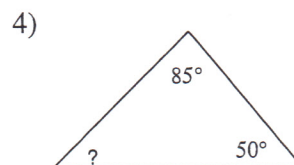
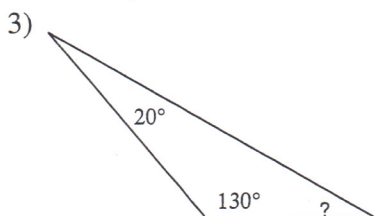
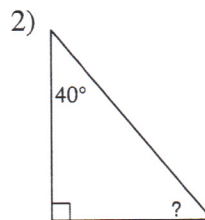
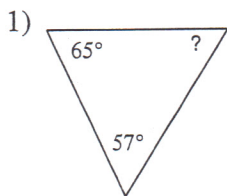
January 9, 2013  
Math Bowl – Triangles, angles

- Two angles are supplementary. If the first angle is  $10^\circ$  larger than the second angle, find the measure of both angles.

Kuta Software - Infinite Geometry

### Angles in a Triangle

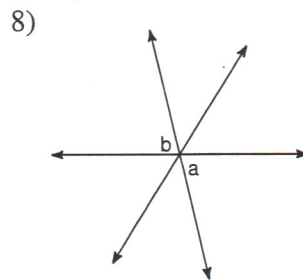
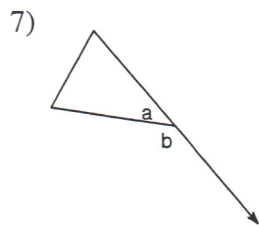
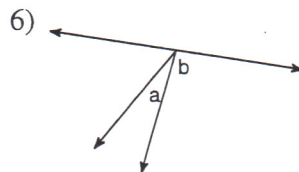
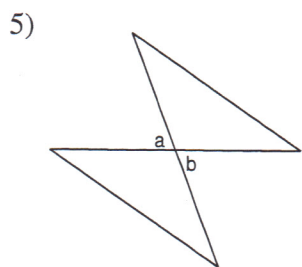
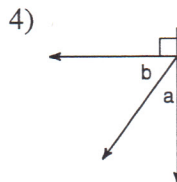
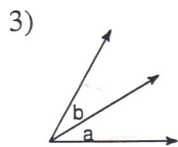
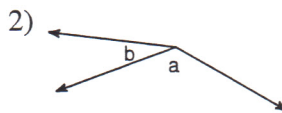
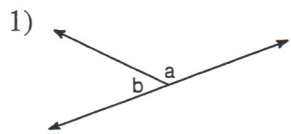
Find the measure of each angle indicated.



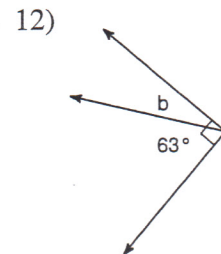
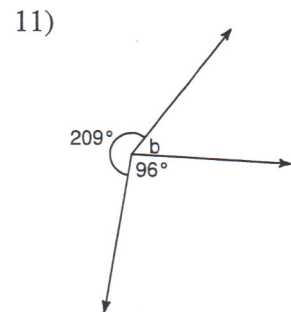
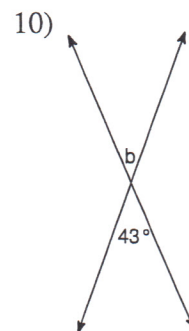
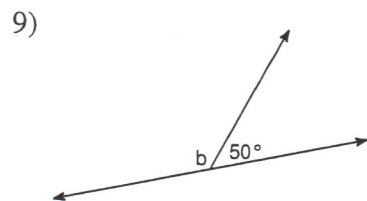
### Angle Pair Relationships

*Supplementary*

Name the relationship: complementary, ~~linear pair~~, vertical, or adjacent.



Find the measure of angle b.



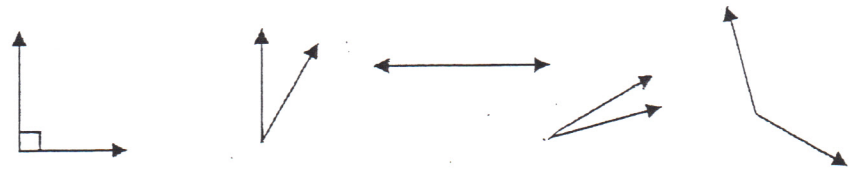
Score: \_\_\_\_\_

Green Bay West High Elementary Math Bowl  
May 12, 2011

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

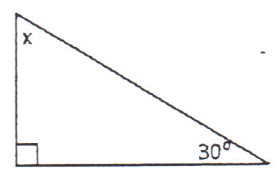
Event 2: Geometry

1. How many acute angles are shown?



Answer: \_\_\_\_\_

2. What is the measure of angle x?



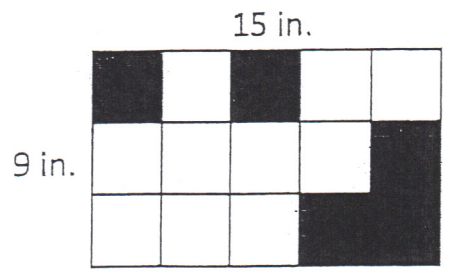
Answer: \_\_\_\_\_

3. How many lines of symmetry does this shape have?



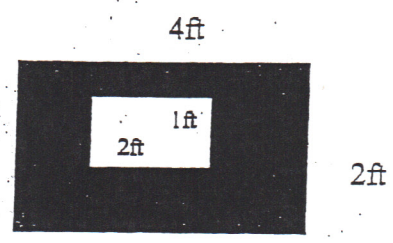
Answer: \_\_\_\_\_

4. You have a pan of brownies. Each individual brownie has the same area. Your little brother ate the brownies in the shaded region. Find the area of the remaining brownies.



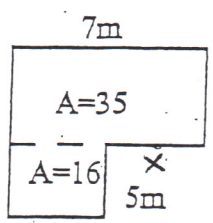
Answer: \_\_\_\_\_

5. Find the area of the shaded region.



\_\_\_\_\_

6. The polygon below is divided into two parts. One has an area of  $35m^2$  and the other has an area of  $16m^2$ . Find  $x$ .



\_\_\_\_\_