Name: _____

Date: _____

"Worksheet: Identifying Types of Triangles"

PART I: Match the name of the triangle with the triangle shown.

_____Isosceles

_____Equilateral

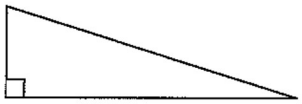
_____Scalene

_____Acute

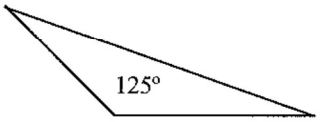
_____Right

_____Obtuse

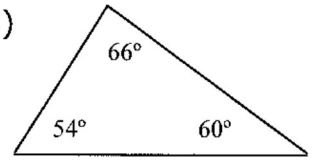
A)



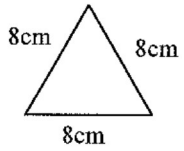
B)



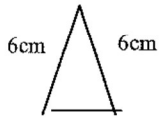
C)



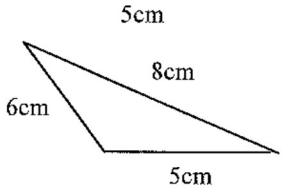
D)



E)



F)



Part II: Use the information above to answer the following:
If you were given the measurements of the angles and the sides of the triangles above, what two labels can you give to each triangle below?

Triangle A _____ _____

Triangle D _____ _____

Triangle E _____ _____

Triangle F _____ _____

PART III: Identify the type of triangle based on the following information

- A triangle with all sides and angles congruent_____
- A triangle with no sides congruent_____
- A triangle with one angle 91°_____
- A triangle with angles 103°, 20°, 57°_____
- A triangle with sides 11cm, 15cm, 11cm _____

PART IV: Design a right triangle that is also scalene. Do this design without using a protractor and only with a ruler.

Drawing a Triangle

Name:_____

Accelerated 7th Grade Math

Using the following information, draw a triangle.

1. A triangle has an angle of 50°, a side of 8 cm, and an angle of 60°.

2. A triangle has a side length of 7 cm, an angle of 60°, then a side length of 7 cm.

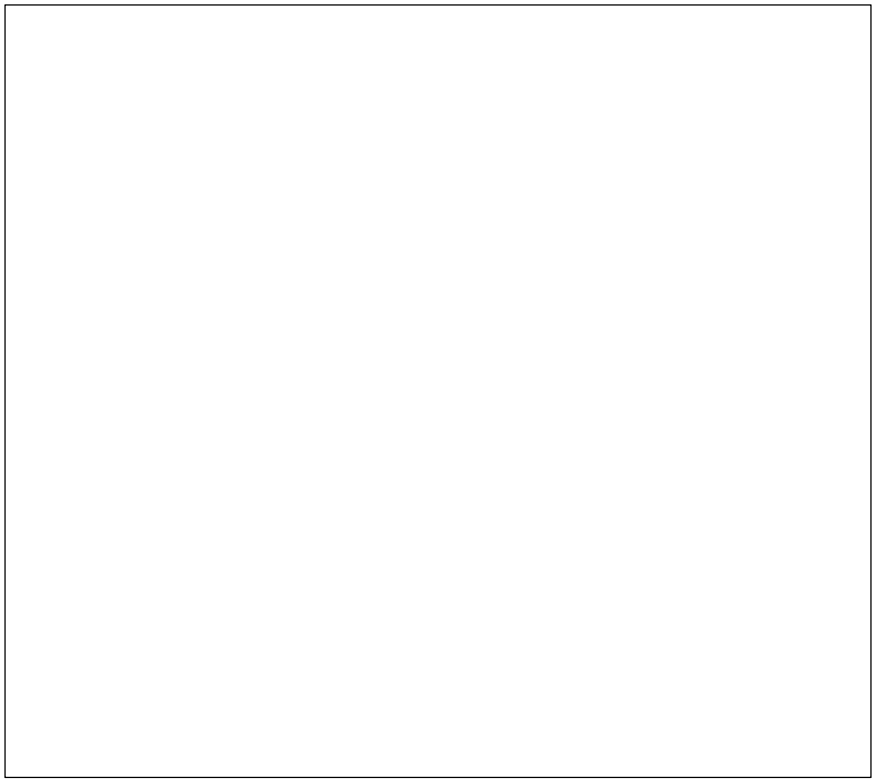
Triangle

3. A triangle has an angle of 85°, a side of 5 cm, and an angle of 40°

Triangle

4. A triangle has a side length of 3 cm, an angle of 90°, then a side length of 4 cm.

Triangle



Triangle Inequality Theorem

Name:_____

Accelerated 7th Grade Math

Can these numbers be the lengths of the sides of a triangle? Show work to prove your answer.

1) 8, 9, 10

2) 1, 1, 2

3) 6, 9, 2

4) 9, 3, 4

5) 12, 4, 17

6) 2, 8, 7

7) 14, 3, 9

8) 12, 2, 18

9) 3, 2, 1

10) 4, 11, 7

11) 15, 10, 6

12) 21, 6, 14

13) Ralph has a pet rabbit and wants to build a pen for it. He has 3 pieces of lumber: one is 3 ft, one is 7 ft, and the other is 8 ft long. Can he build a closed triangular pen with these three boards?