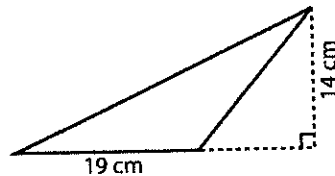
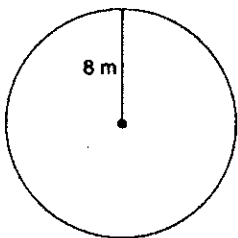
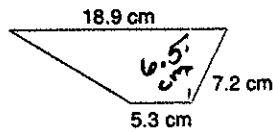
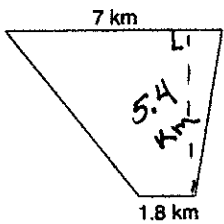
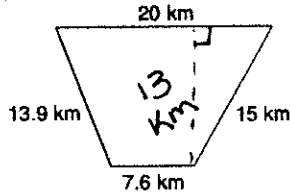
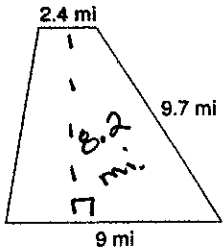


Area 2

Name: _____

Same directions as last night.





Determine if a triangle can be created by using the triangle inequality theorem,

Name: _____

1. Which of the following sets of line segments can form a triangle? Look carefully at the units for each set of line segments. (1 inch = 2.54 cm)

- a. 5 cm, 9 in, 11 cm
- b. 4.2 in, 4.4 cm, 3.3 in
- c. 13 cm, 20 cm, 6 in
- d. 27 cm, 27 cm, 54 cm

Explain how you know your choices can form a triangle.

2. Sasha is given 2 line segments (9 in and 15 in) to construct a triangle. Select the following side lengths that would create a triangle. Then name the triangle based on the sides.

- a. 30 in
- b. 15 in
- c. 7 in
- d. 6 in

3. Give two different examples of side lengths that won't make a triangle and explain why.