

Assignment 10

Math 1030

Due Monday, November 26th

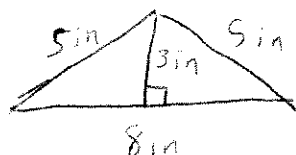
1. Perimeters and Area

Find the perimeter and area of each of the following shapes.

- (a) A rectangular postage stamp with a length of 2.2 centimeters and a width of 2.0 centimeters.

- (b) A parallelogram with sides of length 12 feet and 30 feet, and a distance between the 30-foot sides of 6 feet.

- (c) The triangle:



2. Three Dimensional Objects

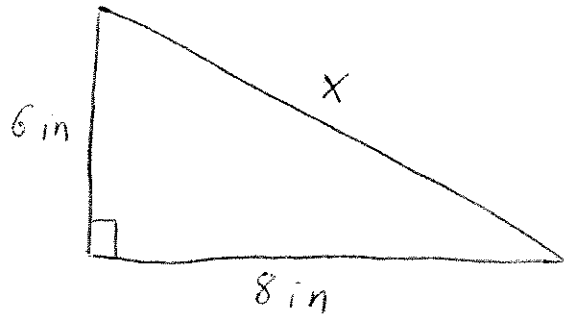
- (a) An arena has a floor that measures 30 meters by 40 meters, with a ceiling 8 meters high. How much air does it hold, in cubic meters? In liters?

- (b) A soccer ball has a circumference of 69 centimeters. What are its volume and surface area?

- (c) Which holds more: an oil drum with a radius of 2 feet that is 3 feet high or an oil drum with a radius of 1.5 feet that is 4 feet high?

3. Geometric Problem Solving

(a) What is the distance x in the right triangle below:



(b) What is the angular size of a quarter viewed from a distance of 5 yards? Use 2.5 cm as the diameter of the quarter.