Geometry in 3-D: An Acre, A Hectare, and How They Compare

An acre consists of 43,560 square feet while a hectare is equivalent to 10^4 square meters, or one square hectometer (hecto- is another metric prefix that denotes one-hundred, *i.e.*, 1 hm = 100 m)...

a. An acre is what percentage of a hectare? (MUST show your work in order to receive full credit.)

b. A hectare is what percentage of an acre? (MUST show your work in order to receive full credit.)

c. Draw a square (in the space below) where each side measures 5 inches.

d. If the square (in part "c") represents one hectare, then what is the scale of your drawing?

_____ meters = 1 inch

e. Determine the size (dimensions) of a rectangle, or a square, that represents one acre using the same scale (in part "d"). Then draw the appropriate figure inside the $(5'' \times 5'')$, part "c") square which represents one acre. (MUST show your work in order to receive full credit.)