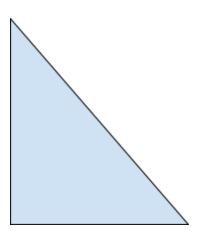
1. Construct (on a separate sheet of paper) a garden in the shape of a right triangle with the two perpendicular sides bordered by a fence. You plan to edge the third side (the hypotenuse) with brick. The dimensions are given in the figure:



- 2. Use the Pythagorean Theorem to find how many feet of the garden will be edged in brick. Show your calculations next to your garden.
- 3. Determine the perimeter of the garden.
- 4. If you use the same amount of fencing and brick for a circular garden, can you tell which shape gives you the maximum area?
- 5. If you put a fountain inside your garden, what's the maximum radius it could have?