# Revisiting the Pythagorean Theorem
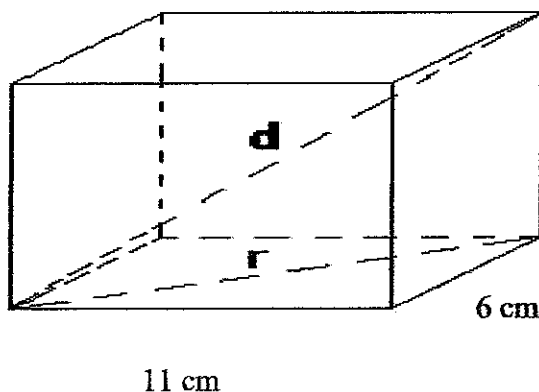
**1.** Find the following

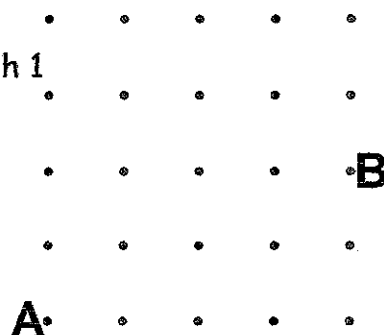Volume = _____

Surface area = _____ 7 cm

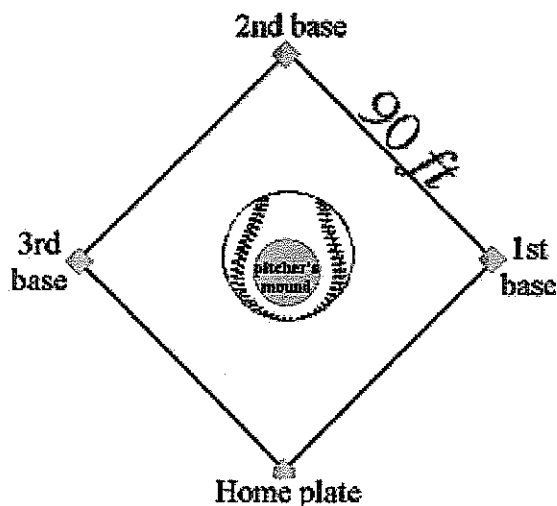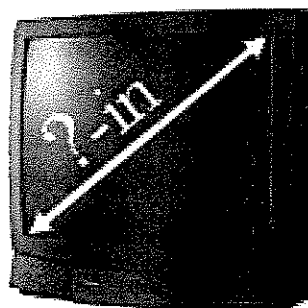r = _____

d = _____



6 cm

11 cm

**2.** If the picture below represents a Geoboard with 1 cm between pins what is the distance between points A and B. Round your answer to the neatest tenth.



**B**

**A**

**3.** A television screen (or picture tube) is a rectangle whose *size* is given by its **diagonal length.** If a TV screen has a length of 17.6" and a width (or height) of 13.2", then what will be the television set's size?



2nd base



90 ft

3rd base

1st base

Home plate

**4.** How far must the catcher (positioned at home plate) throw the baseball in order to throw "out" a runner who is attempting to steal second base?