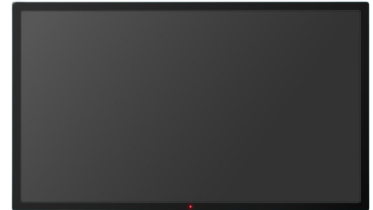


Name: \_\_\_\_\_

# Pythagorean Theorem Word Problems

1.) How far from the base of a building would a 24-foot ladder need to be placed so that it reaches the top of a 16-foot wall (to the nearest tenth of a foot)?

2.) The size of a rectangular television is measured by the length of its diagonal. If a television is 52 inches long and 39 inches wide, what is the size of the television (to the nearest inch)?



3.) The diagonal of a rectangle is 28.6 cm. If the rectangle has a width of 13.1 cm, what is the length of the rectangle (to the nearest tenth of a cm)?

4.) Sixto walked diagonally from one corner of a square courtyard to the other. If each side of the courtyard is 42 meters, what is the diagonal distance across the courtyard (to the nearest tenth of a meter)?



## **ANSWER KEY**

- 1.) 17.9 ft
- 2.) 65 in
- 3.) 25.4 cm
- 4.) 59.4 m