Pythagorean Theorem in Real-World Problems

Independent Set 6.04

Name_____
Date_____
Period_____

Six questions, on your own, in silence. Show the step that does the work.

1. A tablet screen is 5 inches wide and 8 inches tall. How long is its diagonal, to the nearest tenth of an inch?

2. A fire truck's 50-ft ladder reaches 48 ft up a building. How far from the building is its foot?

3. A ramp rises 3 ft over a run of 14 ft. How long is the ramp, to the nearest tenth of a foot?

4. A park is 7 m by 11 m. How much shorter is the walk straight across, corner to corner, than the walk along two sides? Give it to the nearest tenth of a meter.

5. Will a 10-in pencil lie flat in a box 7 inches by 8 inches, corner to corner?

6. A kite flies on 19 m of tight string. Straight below the kite, level with the hand that holds the string, is a point 12 m from the hand. How high is the kite above that point, to the nearest tenth of a meter?