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**The World as Pythagoras Sees It**

1. A mover’s ramp is placed on top of a 5-foot high staircase. If the end of the ramp is on the floor 12 feet away, how long is the ramp?



2. Mr. Campbell wants a new slide installed in the elementary school playground. The construction workers drew this diagram of the slide being installed. The ladder is 2.1 meters high and the length of the slide is 3.5 meters. How far is the ladder from the base of the slide?



3. Kylie is flying her kite on the beach. Her kite string is out 25 feet. The shadow of the kite is 15 feet away from where Kylie is standing. How high is her kite?



4. Mr. Collins is having his roof repaired after a storm damaged some of the shingles. He is using a 25-ft ladder to reach the top of the house. He placed the ladder 7-ft away from the house. How far up the side of the house is the ladder?

5. The city of Heber Springs, Arkansas wants to build a road across Greers Ferry Lake. They drew a map of the lake below. Find the distance across the lake.



6. A telephone pole fell over and the top landed 24 feet away from its base. Ten feet of the pole remained standing out of the ground. How high was the telephone pole before it broke?