

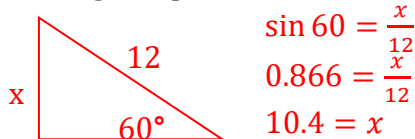
NAME: KEY

SCORE: _____

SohCahToa WORD PROBLEMS 1

INSTRUCTIONS: Solve each word problem. Round answers to the nearest tenth.

1. Jean has a 12-foot ladder. If the safest angle for his ladder to lean is 60° what is the highest point the ladder itself will reach?



2. Javier teaches geometry. He creates a problem involving a right triangle with sides of 27, 364, and 365. Did he create a true right triangle?
3. Sally built a small ramp for her bicycle. The ramp is 10 meters long and creates a 15-degree angle with the ground. How tall is the ramp at the highest point?
4. Susan wants to make sure that her frame is perfectly square. All four of the sides measure 10 inches. If the frame is square what will the measure of the diagonal be?
5. The angle of elevation of the sun is 45° Cossette's shadow is 6 feet long. How tall is Cossette?
6. Ron walks 10 miles directly North and then 15 miles directly East. How much shorter could Ron's path have been had he chosen a straight line connecting his start and end point.

