

## Problem Solving

Write the correct answer. Round to the nearest tenth.

1. A utility pole 10 m high is supported by two guy wires. Each guy wire is anchored 3 m from the base of the pole. How many meters of wire are needed for the guy wires?
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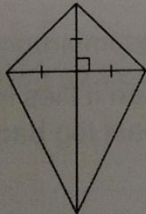
3. The base-path of a baseball diamond forms a square. If it is 90 ft from home to first, how far does the catcher have to throw to catch someone stealing second base?
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2. A 12 foot-ladder is resting against a wall. The base of the ladder is 2.5 feet from the base of the wall. How high up the wall will the ladder reach?
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4. A football field is 100 yards with 10 yards at each end for the end zones. The field is 45 yards wide. Find the length of the diagonal of the entire field, including the end zones.
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Choose the letter for the best answer.

5. The frame of a kite is made from two strips of wood, one 27 inches long, and one 18 inches long. What is the perimeter of the kite? Round to the nearest tenth.



- A 18.8 in.                      C 65.7 in.  
B 32.8 in.                      D 131.2 in.
7. A television screen measures approximately 15.5 in. high and 19.5 in. wide. A television is advertised by giving the approximate length of the diagonal of its screen. How should this television be advertised?

- A 25 in.                      C 12 in.  
B 21 in.                      D 6 in.

6. The glass for a picture window is 8 feet wide. The door it must pass through is 3 feet wide. How tall must the door be for the glass to pass through the door? Round to the nearest tenth.

- F 3.3 ft                      H 7.4 ft  
G 6.7 ft                      J 8.5 ft

8. To meet federal guidelines, a wheelchair ramp that is constructed to rise 1 foot off the ground must extend 12 feet along the ground. How long will the ramp be? Round to the nearest tenth.

- F 11.9 ft                      H 13.2 ft  
G 12.0 ft                      J 15.0 ft