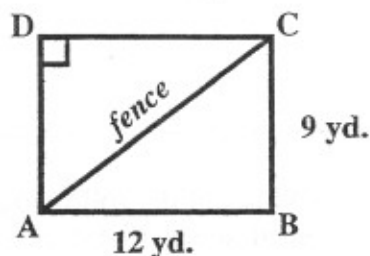


SOLVE WORD PROBLEMS INVOLVING THE PYTHAGOREAN THEOREM

3. A tent is being set up for a group of people. A 12-foot pole is to be placed in the center. Four pieces of heavy-duty rope are to be attached to the top of the center pole and also attached to points on the ground that are 9 feet from the base of the pole. What is the total length of the four pieces of rope?

A. 15 feet
B. 45 feet
C. 50 feet
D. 60 feet

4. The owner of a rectangular piece of land 12 yards in length and 9 yards in width wants to divide it into two parts. He plans to join two opposite corners with a fence as shown in the diagram below. The cost of the fence will be approximately \$40 per linear foot. What is the estimated cost for the fence needed by the owner?



A. \$1260
B. \$1800
C. \$2520
D. \$27,000