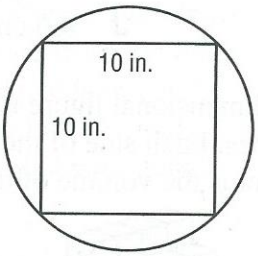
Name _____ Date _____

TAKS Practice (continued)

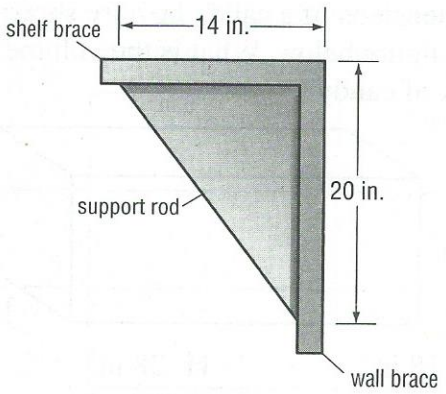
(8.9)(A) Measurement The student uses indirect measurement to solve problems. The student is expected to use the Pythagorean Theorem to solve real-life problems.

1 Lucas is cutting a 10-inch by 10-inch square pizza from a circular pizza as shown in the diagram. About what size is the smallest diameter of circular pizza from which Lucas can cut a square pizza?



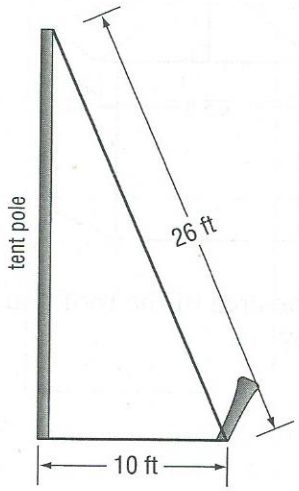
A 10 in.
B 12 in.
C 14 in.
D 18 in.

2 The diagram shows the side view of a support bracket used with a bookshelf.



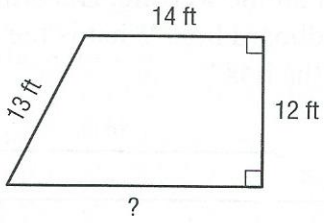
What is the approximate length of the support rod?
F 6 in.
G 18 in.
H 24 in.
J 28 in.

3 A 26-foot rope is used to brace a tent pole at the county fair. The rope is anchored 10 feet from the base of the pole.



How tall is the tent pole?
A 21.8 ft
B 24 ft
C 28 ft
D 30 ft

4 Abdul is putting a fence around his garden to keep rabbits away from the vegetables. The diagram below shows the perimeter of the garden.



Abdul measured three sides of the garden, but his measuring tape was not long enough to measure the fourth side. What is the garden's perimeter?
F 19 ft
G 39 ft
H 48 ft
J 58 ft