TEST PREP

(11) **Squares and Rectangles**

25

**Suggested Time:
30 min**
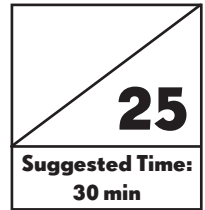
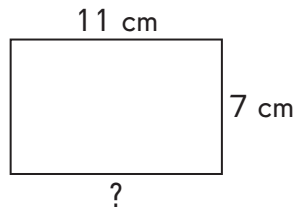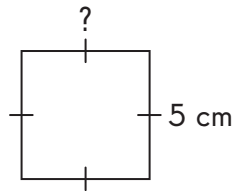**Multiple Choice**   (5 × 2 points = 10 points)

Fill in the circle next to the correct answer.

1. How is a square different from a rectangle?
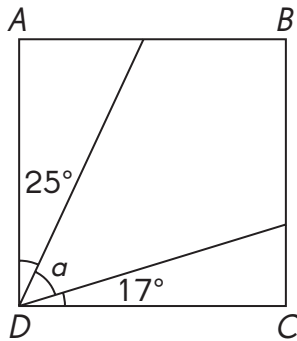
A square _____ and a rectangle does not.

(A) has 4 sides   (B) has 2 pairs of parallel sides

(C) has 4 equal sides   (D) has 4 right angles

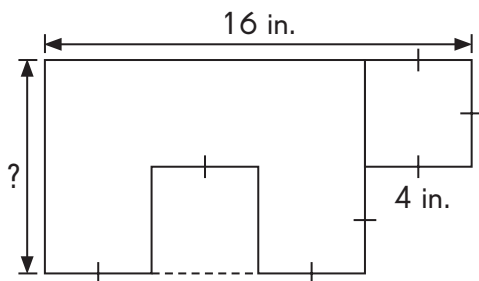**2.** What is the sum of the lengths of the unknown sides?

?
5 cm

11 cm
7 cm
?

(A) 5 cm   (B) 7 cm

(C) 11 cm   (D) 16 cm

3. *ABCD* is a square. What is the measure of the unknown angle?

A _____ B

25°

a

17°

D _____ C

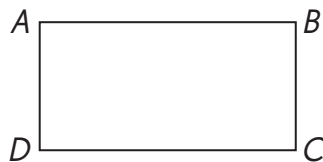(A) 73°   (B) 65°

(C) 48°   (D) 42°

4. Find the unknown length in the figure.

16 in.

?

4 in.

(A) 2 in.   (B) 4 in.

(C) 8 in.   (D) 10 in.

5. The length of rectangle *ABCD* is twice its width.
AB + *BC* = 12 feet. Find *AB*.

A _____ B
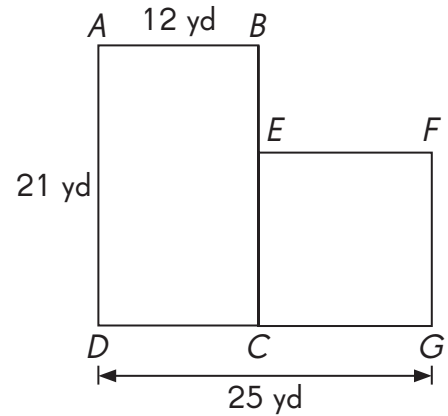
D _____ C

(A) 3 ft   (B) 4 ft

(C) 6 ft   (D) 8 ft

Short Answer   (5 × 2 points = 10 points)

6.   Find the unknown length *BE*. *ABCD* is a rectangle and *EFGC* is a square.

A   12 yd   B

E   F

21 yd

D   C   G

25 yd

7.   *ACDF* is a rectangle and *BCDE* is a square. Find the measure of angle *AEC*.

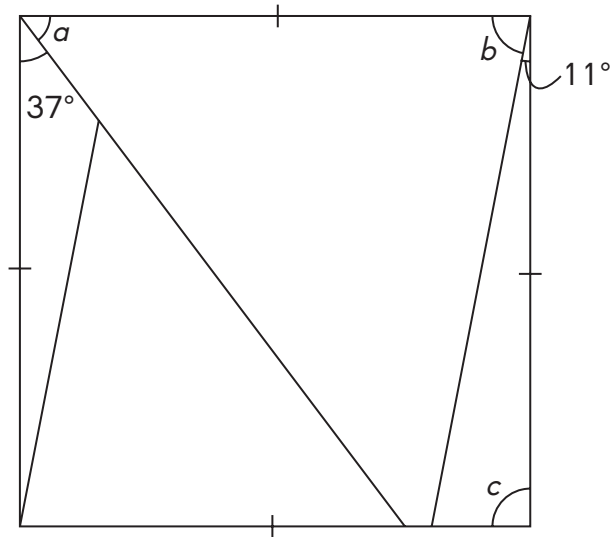A   B   C

62°   45°

F   E   D
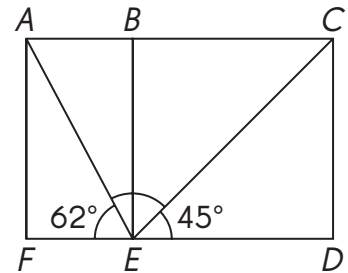
8.   The figure is made up of a big square and 2 smaller identical squares. The lengths are all whole numbers. What is the least possible length of segment *AB*?

7 cm

A   B
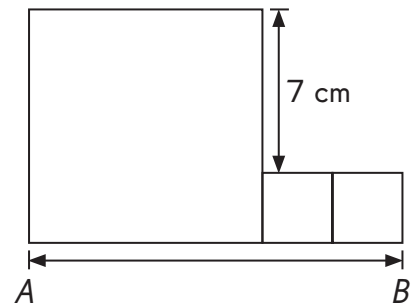
9.   Find the measures of the unknown angles in the square below.
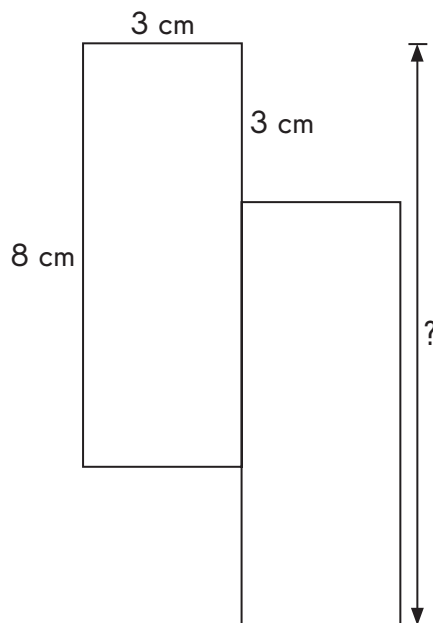

Measure of angle a = _____

Measure of angle b = _____

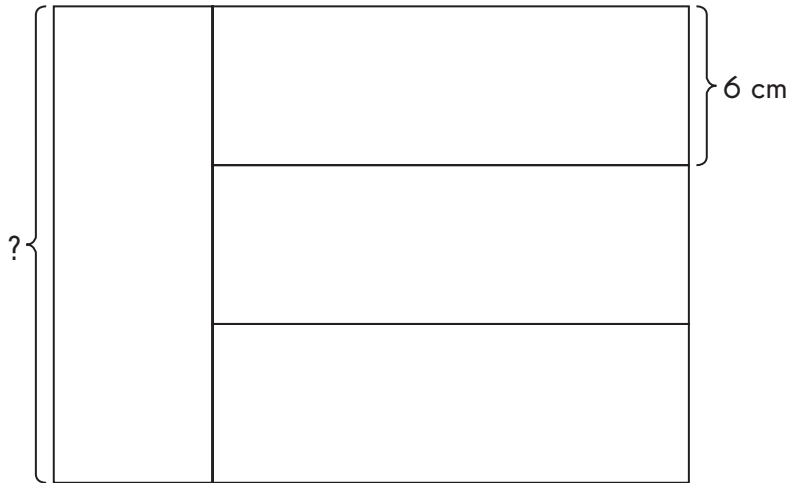Measure of angle c = _____

10.   Find the unknown length. The figure is made up of two identical rectangles.

Extended Response   (Question 11: 2 points, Question 12: 3 points)

11. The figure is made up of four identical rectangles.
Find the unknown length.

6 cm

?

12. *ABCD* is a square and *AXYZ* is a rectangle. Find the sum of the measures
of the unknown angles *a* and *b*.