2015 Q1

1. How many square yards of carpet are required to cover a rectangular floor that is 12 feet long and 9 feet wide? (There are 3 feet in a yard.)

(A) 12   (B) 36   (C) 108   (D) 324   (E) 972

2011 Q2

2. Karl's rectangular vegetable garden is 20 feet by 45 feet, and Makenna's is 25 feet by 40 feet. Whose garden is larger in area?

(A) Karl's garden is larger by 100 square feet.

(B) Karl's garden is larger by 25 square feet.

(C) The gardens are the same size.

(D) Makenna's garden is larger by 25 square feet.
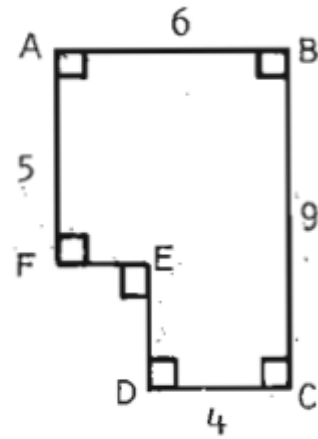
(E) Makenna's garden is larger by 100 square feet.

2005 Q4

4. A square and a triangle have equal perimeters. The lengths of the three sides of the triangle are 6.1 cm, 8.2 cm and 9.7 cm. What is the area of the square in square centimeters?

(A) 24   (B) 25   (C) 36   (D) 48   (E) 64

1985 Q4
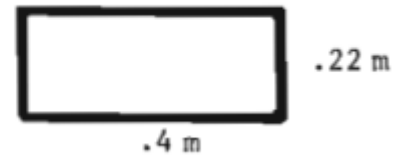
4. The area of polygon ABCDEF, in square units, is

   A). 24   B) 30   C) 46

   D) 66   E) 74

1987 Q5

5. The area of the rectangular region is

   A) .088 m^2 B) .62 m^2 C) .88 m^2

   D) 1.24 m^2 E) 4.22 m^2
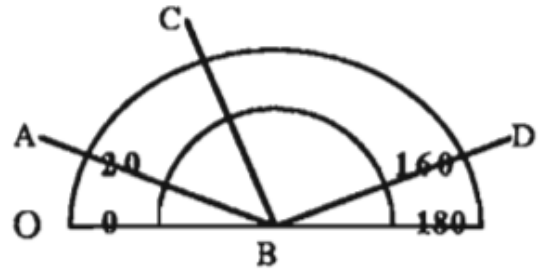

1987 Q4

4. Martians measure angles in clerts. There are 500 clerts in a a full circle. How many clerts are there in a right angle?

   A) 90   B) 100   C) 125   D) 180   E) 250

1988 Q5

5. If ∠CBD is a right angle, then this protractor indicates that the measure of ∠ABC is approximately
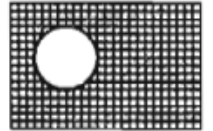
A) 20°   B) 40°   C) 50°

D) 70°   E) 120°

1992 Q5

5. A circle of diameter 1 is removed from a 2 × 3 rectangle, as shown. Which whole number is closest to the area of the shaded region?
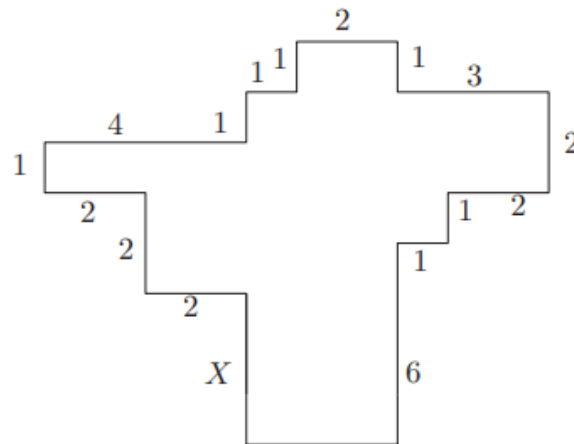
(A) 1   (B) 2   (C) 3   (D) 4   (E) 5

1999 Q5

5. A rectangular garden 50 feet long and 10 feet wide is enclosed by a fence. To make the garden larger, while using the same fence, its shape is changed to a square. By how many square feet does this enlarge the garden?

(A) 100   (B) 200   (C) 300   (D) 400   (E) 500

2012 Q5

5. In the diagram, all angles are right angles and the lengths of the sides are given in centimeters. Note the diagram is not drawn to scale. What is X, in centimeters?

(A) 1   (B) 2   (C) 3   (D) 4   (E) 5