To apply the correct amount of fertilizer on your lawn, you need to know its surface area.

First, determine the total area of your property. Second, subtract the areas not to be fertilized. The remaining square footage is the number needed to determine how much fertilizer is needed. (See Figure 1)

**Total lot:** Lot, 125’ x 100’ = 12,500 sq. ft.

**Subtract:**
- House, 44’ x 26’ = 1,144 sq. ft.
- Deck, 12’ x 12’ = 144 sq. ft.
- Drive, 40’ x 10’ = 400 sq. ft.
- Garden, 25’ x 15’ = 375 sq. ft.
- Walk, 4’ x 20’ = 80 sq. ft.

**Total to subtract** = 2,143 sq. ft.

**Remainder:** Yard = 10,357 sq. ft.

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**How to determine the square footage of some familiar shapes**

**Squares, rectangles**

Area = Length x width

Length = 50’
Width = 30’
Area: 50’ x 30’ = 1,500 sq. ft.

**Triangles**

Area = .5 x base x height

Base = 40’
Height = 80’
Area: .5 x 40’ x 80’ = 1,600 sq. ft.

**Circles**

Area = D x r²
(D = 3.14)

r (radius) = 20’
Area: 3.14 x (20’ x 20’) = 1,256 sq. ft.

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For more information on this and other topics visit the University of Maryland Extension website at [www.extension.umd.edu](http://www.extension.umd.edu)
Irregular shapes

Divide area into smaller sections having familiar shapes (e.g. triangles A and D; rectangles B and C), then:

Area = Area A + Area B + Area C + Area D

A: \(.5 \times 25' \times 65' = 813 \text{ sq. ft.}\)
B: \(15' \times 25' = 375 \text{ sq. ft.}\)
C: \(50' \times 30' = 1,500 \text{ sq. ft.}\)
D: \(.5 \times 10' \times 50 = 250 \text{ sq. ft.}\)

Area: \(813 + 375 + 1,500 + 250 = 2,938 \text{ sq. ft.}\)

Use the space below to draw your yard. Record the area in the box below.

Do you have a plant or insect pest question? Visit us at extension.umd.edu/hgic and click Ask Maryland’s Garden Experts

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