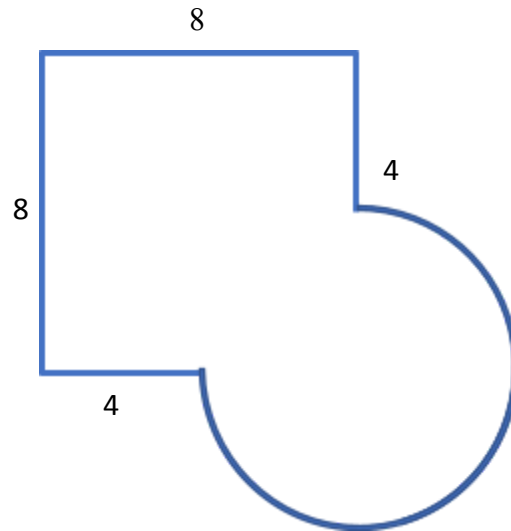


ENMU Horticulture Math Key

1. A 25-15-5 fertilizer contains 25 percent nitrogen. How much of this fertilizer should be applied to a lawn area of 3,000 square feet if the recommendation from a soil test is for 1 pound of nitrogen per 500 square feet?
A. 0.008
B. 24
C. 25
D. 3125
2. Jim Bob Brown is planting a garden for lovely wife. Find the Square footage of this irregular shape. The diameter of the circle is 7.
A. 102.456
B. 78.456
C. 38.465
D. 94.465



3. Last year Howard harvested 2,840 pounds of peanuts per acre. Howard has one field that is 156 acres and another 98 acres.
A. 721,360
B. 443,040
C. 278,320
D. 731,360
4. You are looking at a 4-lb bag of 18-24-6 stater fertilizer that covers 3,500 square feet. It cost \$15.75 a bag. Your lawn is 8,400 square feet and you want to fertilize your lawn twice a year. How many bags of fertilizer will you need to buy for one year?
A. 3 Bags
B. 4.8 Bags
C. 5 Bags
D. 2.4 Bags

ENMU Horticulture Math Key

5. Farmer Dave harvested 5.2 tons of Pinto beans. There was a harvest loss of 8% this season, how many pounds of beans can Farmer Dave take to the market?
 - A. 10,400
 - B. 832
 - C. 9,568
 - D. 11,232
6. You are gardening a triangular field, you are trying to determine the square footage of the field. The field has a 90 degree corner with the 75 yard west boundary and a 150 yard north boundary. Approximately how many square feet is the field?
 - A. 101,250
 - B. 20,000
 - C. 50,625
 - D. 60,000
7. You have a raised garden bed that is a 12x8 feet. You want to plant radishes in this bed and can fit 16 radishes per square foot. How many radishes can you plant?
 - A. 96
 - B. 1,536
 - C. 1,537
 - D. 864
8. You want to plant 36 strawberry plants in your garden. If four plants need a square foot of room, how big of a bed do you need for strawberries?
 - A. 36 square feet
 - B. 9 square feet
 - C. 3 square feet
 - D. 6 square feet
9. The putting greens on a 9-hole golf course total 13,500 sq ft. A 40 pound bag of 18-2-18 is what is used. If you need to apply nitrogen to the greens at a rate of 1 pound of nitrogen per 750 sq. ft., how many bags of this fertilizer should you buy?
 - A. 20 bags
 - B. 1 bag
 - C. 15 bags
 - D. 18 bags
10. Last year Farmer Sally's Peach orchard produced 2,272 pounds of peaches. However Sally was only able to sell 1,989 pounds at the market. What was the harvest loss percentage?
 - A. 12%
 - B. 87%
 - C. 283
 - D. 284
11. If Farmer Sally sold all 1,989 pounds of peaches at \$2.57 a pound, what was the gross income?
 - A. \$4,877.86
 - B. \$5,469.75
 - C. \$5,111.73
 - D. \$5,111.37

ENMU Horticulture Math Key

12. Jackie go to the local greenhouse to buy berries for her mom for Mother's day. The strawberries cost \$5.75, the blueberries are \$4.99, the raspberries are \$6.05, and the blackberries are \$4.50. If she buys 7 strawberries and blueberries, buys 4 raspberries and 5 blackberries, how much will she be paying?
- A. \$122.00
 - B. \$120.62
 - C. \$127.93
 - D. \$121.88
13. You read that tomatoes grow best between 13 and 30 degrees Celsius. Convert both these temperatures to Fahrenheit. Round to the nearest whole number. Use $F=(1.8)C+32$
- A. 81 and 111 degrees
 - B. 55 and 86 degrees
 - C. 45 and 62 degrees
 - D. 60 and 90 degrees
14. You have 72 ounces of cucumber seeds, how many pounds do you have do you have?
- A. 4.4 pounds
 - B. 4.5 pounds
 - C. 5.6 pounds
 - D. 4.0 pounds
15. How many gallons can you spray with a full tank if the tank holds 500 gallons, and you are spraying at 7 gallons per acre?
- A. 3500 acres
 - B. 1000 acres
 - C. 35.73 acres
 - D. 71.42 acres