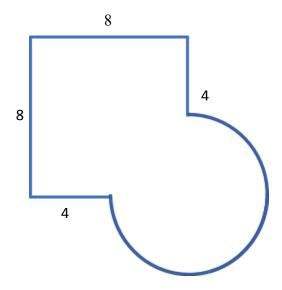
## **ENMU Horticulture Math Key**

- 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 plant needs 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 of 18-2-18 is what is used. If you need to apply nitrogen to the greens at a rate a 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