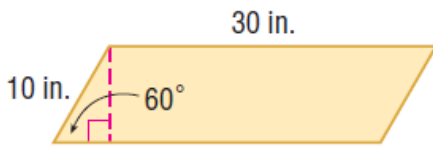


Name: \_\_\_\_\_ Date: \_\_\_\_\_ Hour: \_\_\_\_\_

# ACC Geo Basic Area Graded Assignment 2019

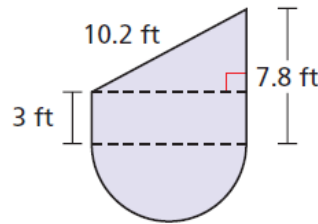
Directions: Show all work, don't forget units. If it does not specify, round to the nearest thousandth.

1. Find the exact area.



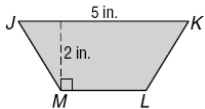
A = \_\_\_\_\_

2. Find the area, round to the nearest thousandth.



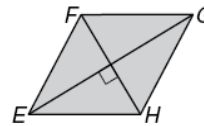
A = \_\_\_\_\_

3. Trapezoid JKLM has an area of  $7.5 \text{ in}^2$ . Find ML.



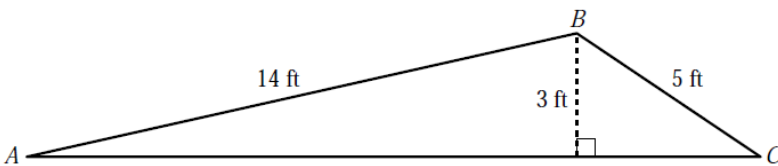
ML = \_\_\_\_\_

4. Rhombus EFGH has an area of  $750 \text{ ft}^2$ . If  $EG = 50 \text{ ft}$ . Find FH.



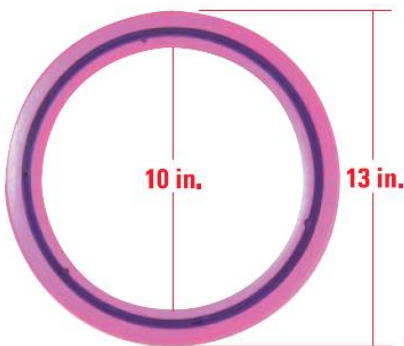
FH = \_\_\_\_\_

5. Find the area of  $\triangle ABC$ . Show all work. Round each step to the nearest thousandth.



A = \_\_\_\_\_

6. A plastic flying disc is circular and has a circular hole in the middle. If the diameter of the outer edge of the ring is 13 inches and the diameter of the inner edge of the ring is 10 inches, what is the exact area of the plastic ring?

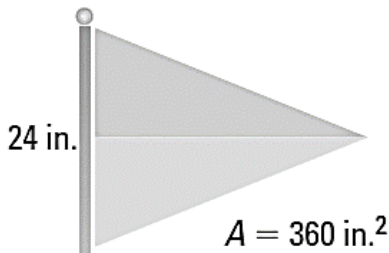


Area of plastic ring: \_\_\_\_\_

7. You have a part-time job at a school. You need to buy enough grass seed to cover the school's soccer field. The field is 50 yards wide and 100 yards long. The instructions on the seed bags say that one bag will cover 5,000 square feet. How many bags do you need?

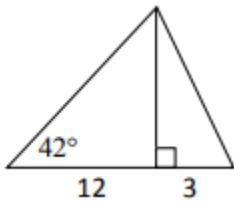
How many bags do you need? \_\_\_\_\_

8. You are making a triangular flag with a base of 24 inches and an area of 360 square inches. How long should the flag be?



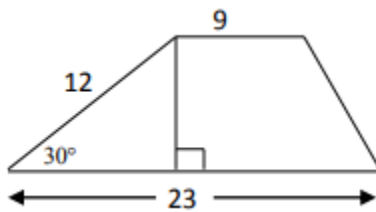
$h =$  \_\_\_\_\_

9. Find the area of the figure. Round to the nearest thousandth.



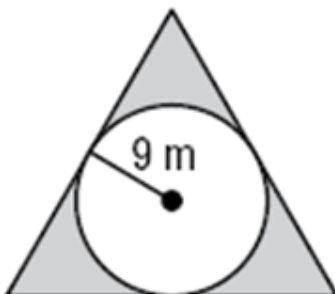
$A =$  \_\_\_\_\_

10. Find the exact area of the trapezoid.



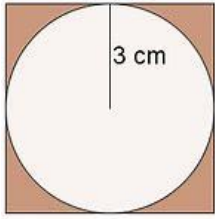
$A =$  \_\_\_\_\_

11. Find the exact area of the shaded region. Show all work.



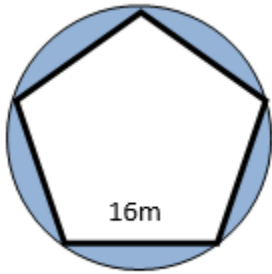
$A =$  \_\_\_\_\_

12. Find the exact area of the shaded region. Show all work.



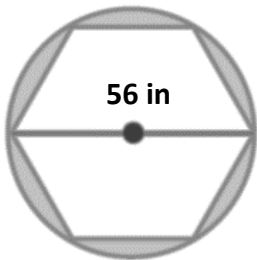
A = \_\_\_\_\_

13. Find the area of the shaded region. Round to the nearest thousandth. Show all work.



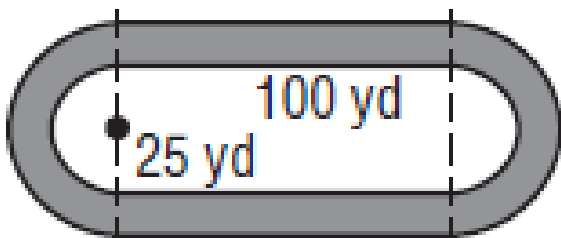
A = \_\_\_\_\_

14. Find the exact area of the shaded region. Show all work.



A = \_\_\_\_\_

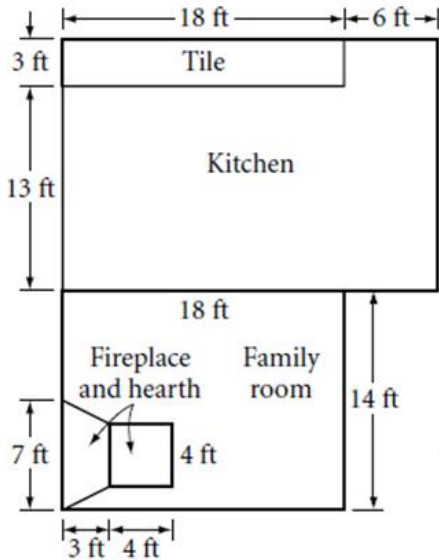
15. A Running track has an inner and outer edge. Both the inner and outer edge consists of two semicircles joined by two straight line segments. The straight line segments are 100 yards long. The radii of the inner edge semicircles are 25 yards and the radii of the outer edge semicircles are 32 yards. What is the area of the track? Round to the nearest thousandth.



A = \_\_\_\_\_

16. Mrs. Faehner will be tiling the area labeled tile, fireplace and hearth. She will be putting new carpet down in the family room and hardwood floors in the kitchen. She only has \$5000 for her renovation budget. (a) Find the area needed for each MATERIAL. (b) If the woodflooding costs \$10 per square foot, the tile costs \$3 per square foot and the carpet costs \$3.30 per square foot, does your assistant principle have enough money (with 6% tax) to complete this rennovation? Show all work.

(a) Area needed for:



Tile= \_\_\_\_\_

Wood= \_\_\_\_\_

Carpet= \_\_\_\_\_

(b) How much will the total be for the renovation without tax? \_\_\_\_\_

Tax = \_\_\_\_\_

Total= \_\_\_\_\_

Will she be able to renovate? \_\_\_\_\_