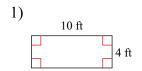
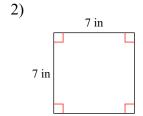
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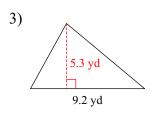
Area Assignment #1 - 2023

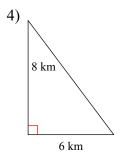
Date_____ Period____

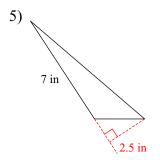
Find the area of each. SHOW YOUR WORK!

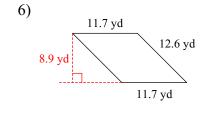


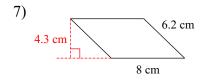


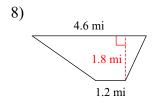


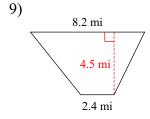








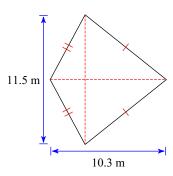




10) Find the area of a trapezoid with a midsegment length of 10 inches and a height of 8 inches.

Find the area of each.

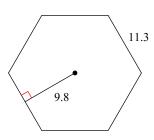
11)



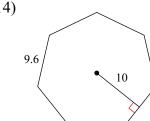
12) Find the area of kite ABCD with vertex $\angle A$ and $\angle C$ and diagonals intersecting at point T. If AD = 15 inches, DT = 9inches, CD = 41 inches, find the area.

Find the area of each regular polygon. Round your answer to the nearest tenth if necessary.

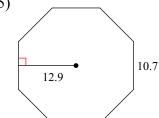
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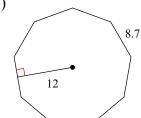
14)



15)

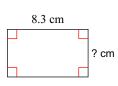


16)



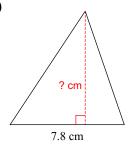
Find the missing measurement. Round your answer to the nearest tenth.

17)



Area = 40.7 cm^2

18)

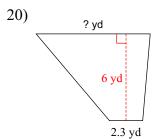


Area = 30.4 cm^2





Area = 88.2 mi^2



Area = 30.6 yd^2

- 21) A rectangular room has an area of 45 square yards. What is the area of the room in square feet?
- 22) You have 40 feet of fencing and you'd like to make a rectangular enclosure for your dog Geo. You wish to maximize the amount of space Geo has. What should the dimensions of your enclosure be?
- 23) A rectangular room measures 15 feet by 20 feet. You wish to install square-shaped tiles on the floor each measuring 20 inches on one side. How many tiles will you need to cover the floor of the room?
- 24) Your new kitchen project uses subway tile on your backsplash. The backsplash measures 20 feet long and is 18 inches high. Each rectangular tile measures 3" x 12". How many tiles will you need to complete the job?

 If each box of subway tile contains 12 square feet of tile, how many boxes will you need to buy?
- 25) You wish you cover the four walls of your room with wallpaper. The dimensions of your room are 12' long x 10' wide x 9' tall. Each roll measures 21 inches wide x 16.5 feet long. How many rolls will you need to purchase for the job? If the roll of wallpaper you chose costs \$35 each, how much will you spend on wallpaper?
- 26) Using the same room as in question #25, you decided wallpaper was too expensive so you decided to paint the 4 walls of your room instead. Each gallon of paint covers 400 square feet and costs \$45. How many gallons of paint do you need? How much money will you spend in paint?
- 27) In the same room as in the previous question (#26), you wish to install vinyl wood-look flooring. Each plank measures 8" x 48". How many planks will you need to cover the floor?
- 28) On graph paper, graph the following rhombuses and find the perimeter AND the area of each:
 - a) A(1,1), B(6,1), C(9,5), D(4,5)
 - b) A(1,1), B(5,4), C(1,7), D(-3,4)