

Chapter 9 Test Review

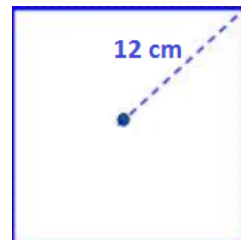
Name: _____

Per. _____ Group #: _____

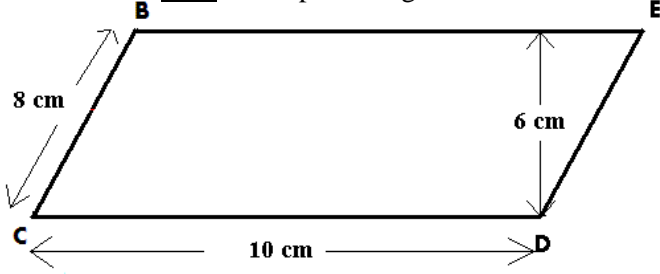
****Directions**** Show **ALL** your work for each question, including writing out formulas. Use the π button on your calculator where necessary. Round your answers to the hundredths place and box your answers.

1. A rectangle has a perimeter of 72 inches. The height is three times the length of the base. Find the **area** of the rectangle.

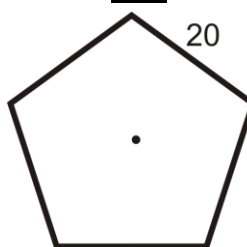
4. Find the **area** of the square.



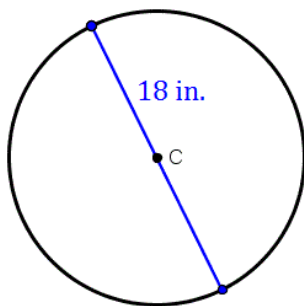
2. Find the **area** of the parallelogram.



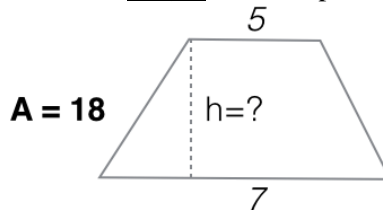
5. Find the **area** of the regular pentagon.



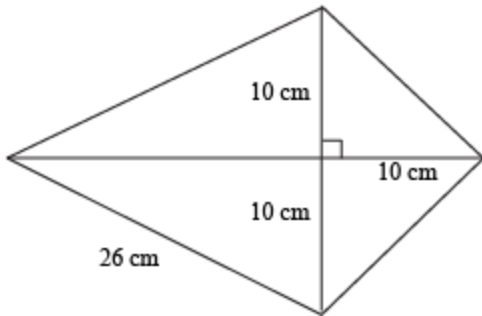
3. Find the **circumference** and **area** of circle C.



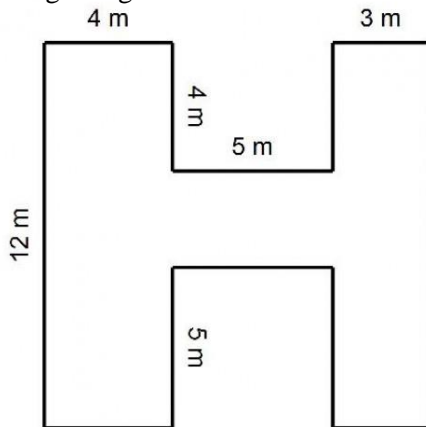
6. Find the **height** of the trapezoid below:



7. Find the **area** of the kite.

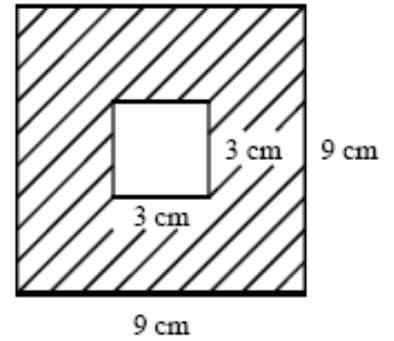


8. Find the **area** of the figure. Assume all angles are right angles.

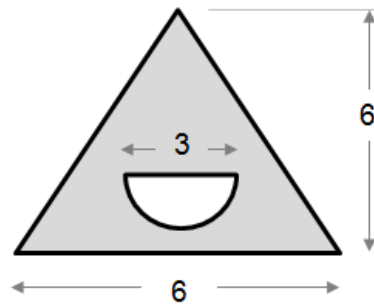


9. The base and height of a parallelogram are multiplied by 4. What is the effect on the **area** of the parallelogram? Answer in a complete sentence.

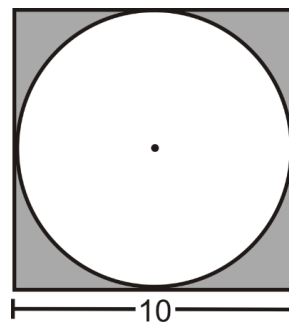
10. Find the probability that a dart that hits the large square target at a random point will hit the **shaded region**.



11. Find the **area of the shaded region** of the figure.



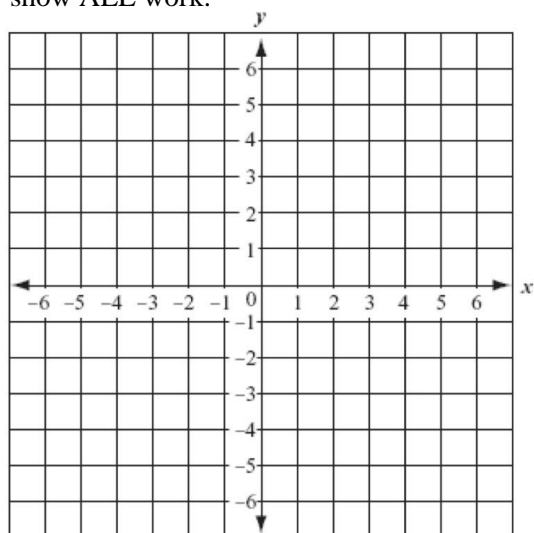
12. Given that a circle is inscribed in the square find the **area** of the circle.



13. A point is chosen at random on \overline{EH} . Find the probability that the point is on \overline{FH} . (Leave your answer in decimal form)



14. Find the **perimeter** and **area** of the polygon with vertices D(-5, 0), E(2, 4) and F(4, 0). Be sure to graph the shape and show ALL work.



15. Find the **perimeter** and **area** of the polygon with vertices A(-3, 2), B(2, 4), C(4, -3), and D(-4, -3). Be sure to graph the shape and show ALL work.

