Geometry: Ch 9 Group Review

1) Find the area of a square that has a perimeter of 36 in.	5) Find the area of a circle with center J that has a circumference of 14π yd. (leave answer in terms of π)
2) Find the height of a triangle that has an area of $6x^3y$ in ² and a base of 4xy in.	6) Find the area of a regular pentagon with a side length of 10 ft. (draw a diagram, calculator allowed)
3) Find the area of a rhombus that has $d_1 = 21$ yd and $d_2 = 24$ yd.	
4) Find the area of a kite that has $d_1 = 32m$ and $d_2 = 18m$.	7) Find the area of a regular octagon with an apothem length of 8 cm. (draw a diagram, calculator allowed)

8) Describe the effect of each change on the perimeter and area of the given figure: The base and height of a triangle with base of 8 ft and height of 20 ft are both multiplied by 4.



a) A point chosen at random is not on \overline{CD}

b) A point chosen at random is on \overline{BC} or \overline{CD} .

10) Find the area of the shape:



12) Draw and classify the polygon with the given vertices. Find the perimeter and area of the polygon.

M (-2, 5), N (3, -2), P(-2, -2)



11) Find the area of the shaded region:



13) Find the area of the polygon with the given vertices:

V(-2, 2), W(4, 0), X(2, -3), Y(-3, 0)



14) Find the probability that a point chosen at random inside the 40m x 24m rectangle is inside the rectangle but not inside the hexagon, triangle, or circle.

