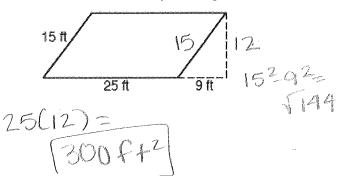
## Geometry-Dieckmann

## **ELIGIBILITY** Review

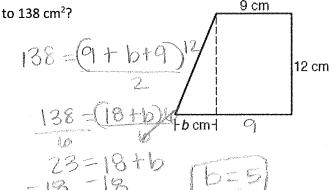
Hour\_

## Round all answers to the nearest tenth unless otherwise noted. Show all your work!

1. Find the area of the parallelogram.



2. What value of b makes the area of the trapezoid equal

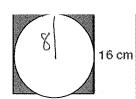


3. A kite has an area of  $3x^2$  and the length of one diagonal is 2x that is the length of the second diagonal?



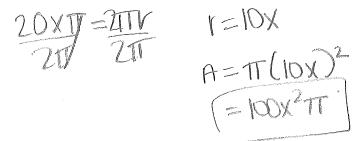


4. Given that the circle is inside the square, find area of the shaded region



$$10.10 = 250$$
  
T.  $(8)^2 = 201.1$ 

5. Find the area of a circle whose circumference is  $20x\pi$  (in terms of  $\pi$ ).



6. Find the height of a trapezoid in which A = 280 cm<sup>2</sup>,  $b_1 = 8cm, b_2 = 20cm.$ 

$$280 = (8 + 26) h$$

$$280 = 28 h$$

$$2 = 28$$

## Find the area.

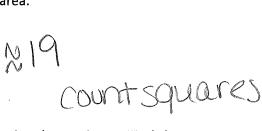
7. 12 cm = lox 6 = 36 =12x0=72 Find the area.

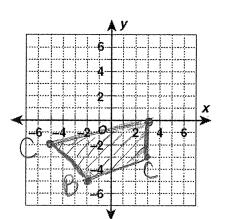
8.

 $T(8)^2 = 104T$ 

104TT-25TT

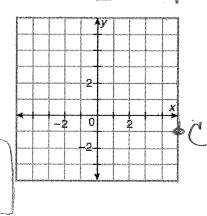
**9.** Graph the polygon with vertices A(-5, -2), B(-2, -5), C(3, -3), and D(3, 0). Then find the perimeter and area.





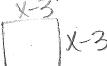


11. The center of a circle is at (5, -1) and goes through the point (4, 8). Find the area of the circle.

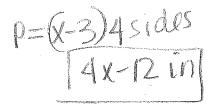


12. If the radius of a circle is multiplied by 5, describe the effect on the area

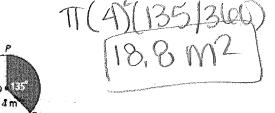
13. Find the area and perimeter of a square where each side is (x-3) in.



$$A = (X-3)(X-3)$$
  
 $X^2 = (0X+9)$ 



14. Find the sector area. Round your answer to the nearest tenth.



15. Find the arc length. Round your answer to the nearest tenth.

