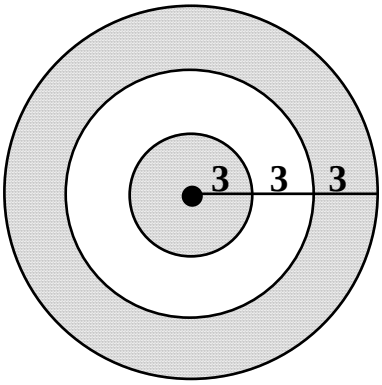
NAME:_____

P.I. A.G.1: Find the area and/or perimeter of figures composed of polygons and circles or sectors of a circle. Note: Figures may include triangles, rectangles, squares, parallelograms, rhombuses, trapezoids, circles, semi-circles, and regular polygons (perimeter only).

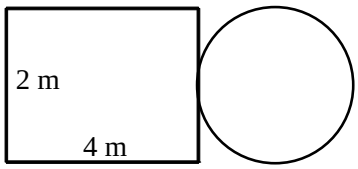
1. Find the area of the outer ring of the figure below.



[A] 141.30 [B] 254.34

[C] 28.26 [D] 113.04

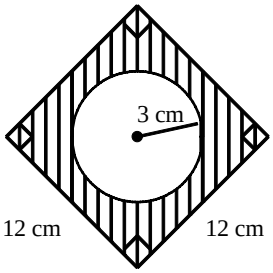
2. Find the area of the composite shape.



[A] 83.3982 m^2 [B] 24.5664 m^2

[C] 20.5664 m^2 [D] 11.1416 m^2

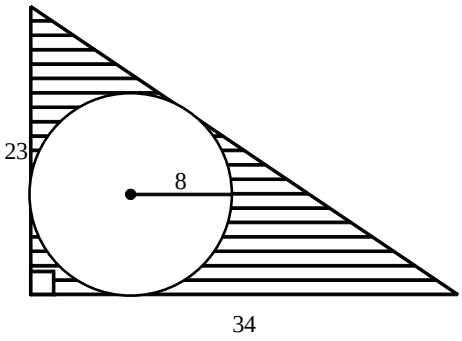
3. Find the area of the shaded region. Round your answer to the nearest hundredth.



[A] 28.27 cm^2 [B] 125.15 cm^2

[C] 115.73 cm^2 [D] 81 cm^2

4. Find the area of the shaded portion of the figure. Dimensions are in centimeters.



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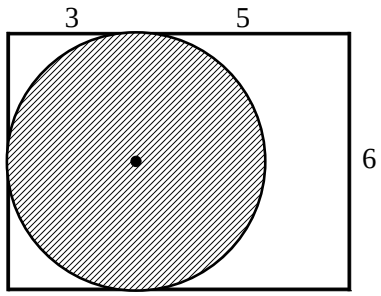
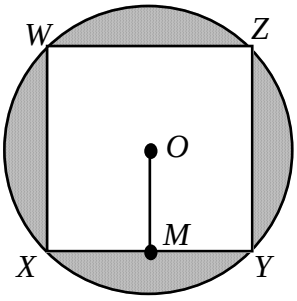
5. The circle is tangent to three sides of the rectangle. Find the area of the unshaded region of this figure. Dimensions are in meters.



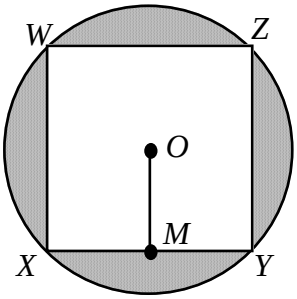
6. In the figure shown, square *WXYZ* is inscribed in circle *O*. Also, $\overline{OM} \perp \overline{XY}$ and $OM = 5$. Find the area of the shaded region.



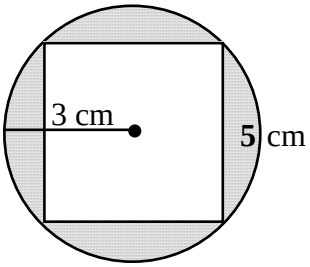
[A] $25\sqrt{2}\pi - 25$ [B] $25\pi - 25$

[C] $75\pi - 100$ [D] $50\pi - 100$

7. In the figure shown, square *WXYZ* is inscribed in circle *O*. Also, $\overline{OM} \perp \overline{XY}$ and $OM = 3$. Find the area of the shaded region.



8. Use the figure below. Find the area of the shaded region.



[1] A

[2] D

[3] C

[4] $(391 - 64\pi)\ \text{cm}^2$

[5] $(48 - 9\pi)\ \text{m}^2$

[6] D

[7] $18\pi - 36$

[8] $3.26\ \text{cm}^2$