



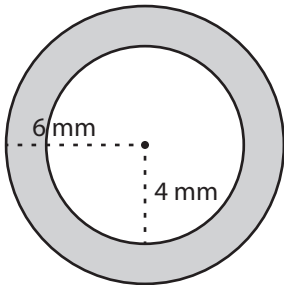
Area of Concentric Circles

Name _____

Score _____

AC:37

Example : Find the area of the shaded region. (Use $\pi = \frac{22}{7}$ or 3.14)



Area of shaded region = Area of the outer circle – Area of the inner circle

$$= \pi R^2 - \pi r^2 \quad ; \quad R = 6 \text{ mm} , r = 4 \text{ mm}$$

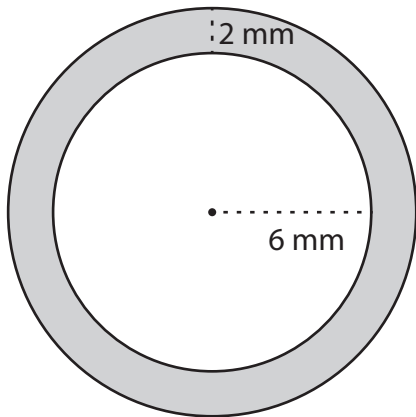
$$= \pi(R^2 - r^2)$$

$$= 3.14 \times (6^2 - 4^2)$$

$$= 3.14 \times (36 - 16) = 3.14 \times 20 = \mathbf{62.8 \text{ mm}^2}$$

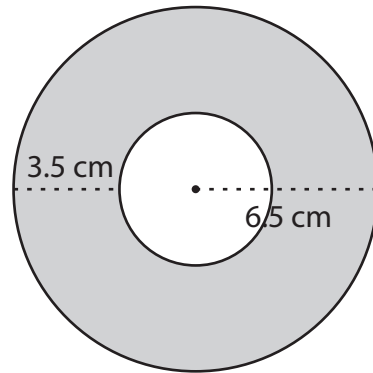
Find the area of the shaded region. (Use $\pi = \frac{22}{7}$ or 3.14)

1)



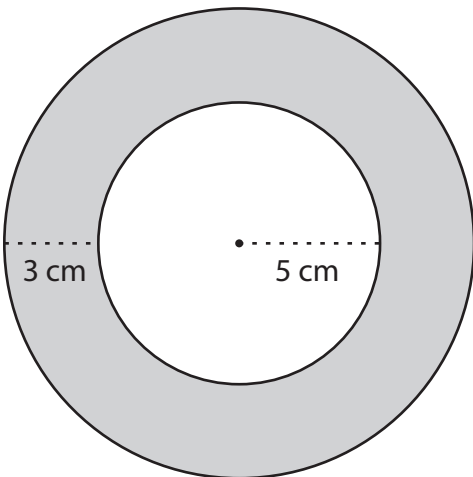
Area = _____ mm^2

2)



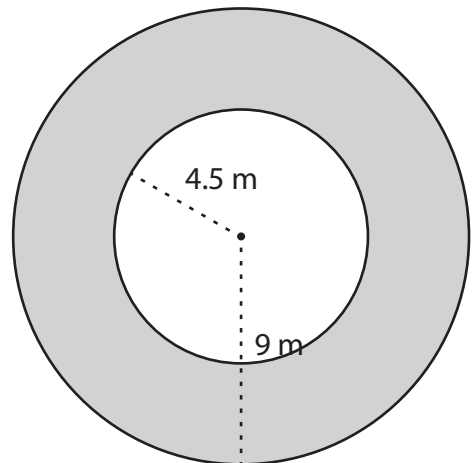
Area = _____ cm^2

3)



Area = _____ cm^2

4)



Area = _____ m^2



Area of Concentric Circles

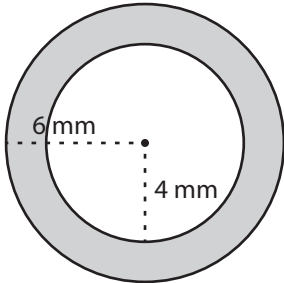
Name _____

Score _____

Answer key

AC:37

Example : Find the area of the shaded region. (Use $\pi = \frac{22}{7}$ or 3.14)



Area of shaded region = Area of the outer circle – Area of the inner circle

$$= \pi R^2 - \pi r^2 \quad ; \quad R = 6 \text{ mm} , r = 4 \text{ mm}$$

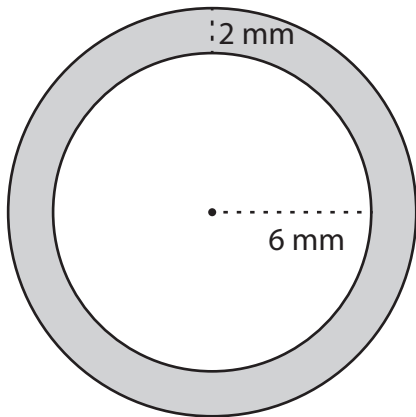
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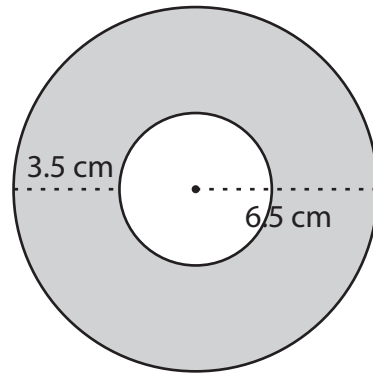
Find the area of the shaded region. (Use $\pi = \frac{22}{7}$ or 3.14)

1)



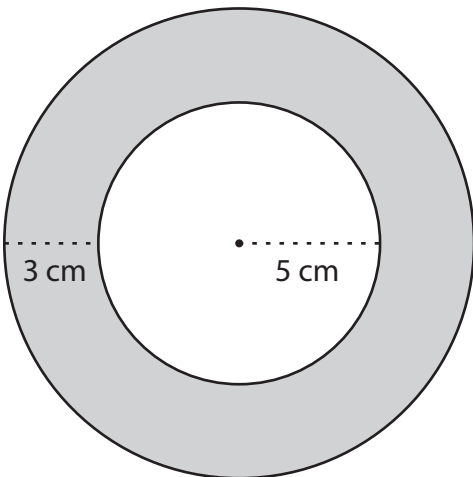
Area = 87.92 mm²

2)



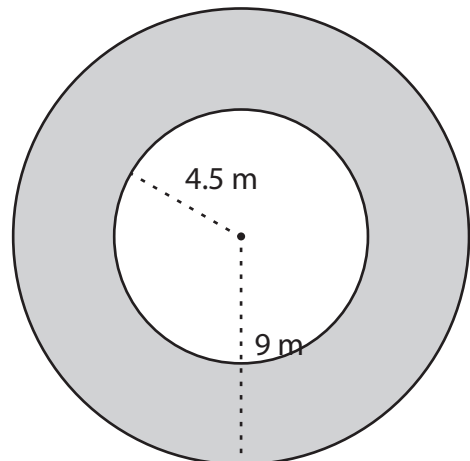
Area = 104.405 cm²

3)



Area = 122.46 cm²

4)



Area = 190.755 m²