



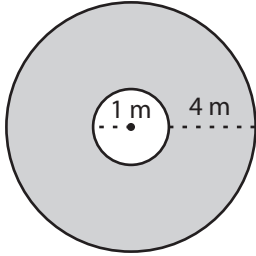
Area of Concentric Circles

Name _____

Score _____

AC:39

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

$$= \pi R^2 - \pi r^2 \quad ; \quad R = (1 + 4 = 5) \text{ m} , \quad r = 1 \text{ m}$$

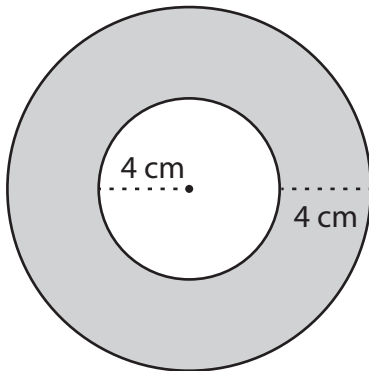
$$= \pi(R^2 - r^2)$$

$$= 3.14 \times (5^2 - 1^2)$$

$$= 3.14 \times (25 - 1) = 3.14 \times 24 = \mathbf{75.36 \text{ m}^2}$$

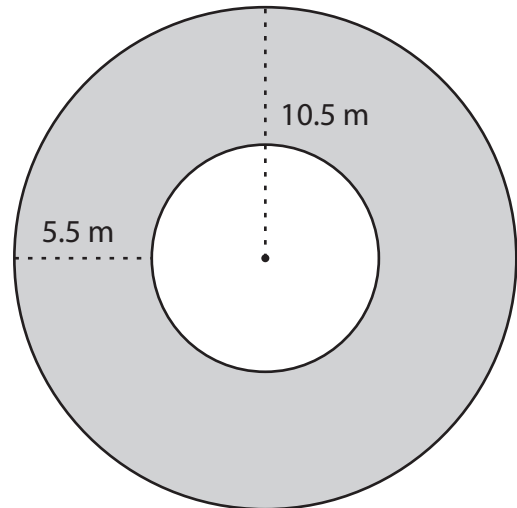
Find the area of the shaded region. (Use $\pi = \frac{22}{7}$ or 3.14)

1)



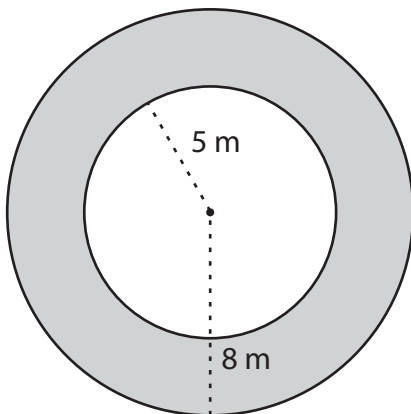
Area = _____ cm^2

2)



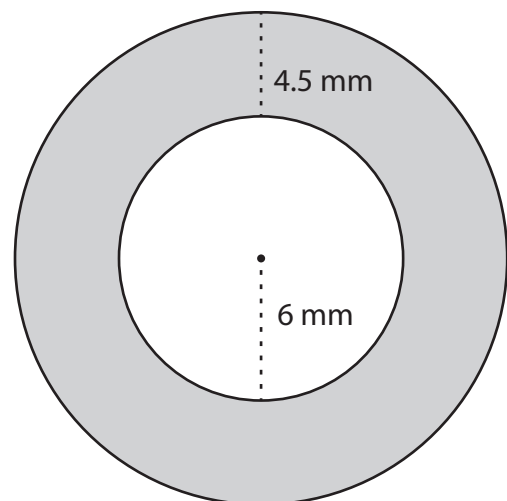
Area = _____ m^2

3)



Area = _____ m^2

4)



Area = _____ mm^2



Area of Concentric Circles

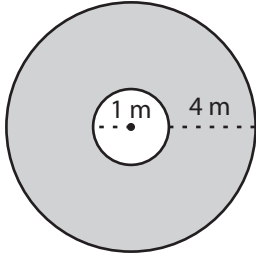
Name _____

Score _____

Answer key

AC:39

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

$$= \pi R^2 - \pi r^2 \quad ; \quad R = (1 + 4 = 5) \text{ m} , \quad r = 1 \text{ m}$$

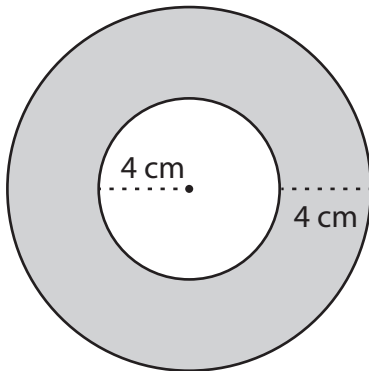
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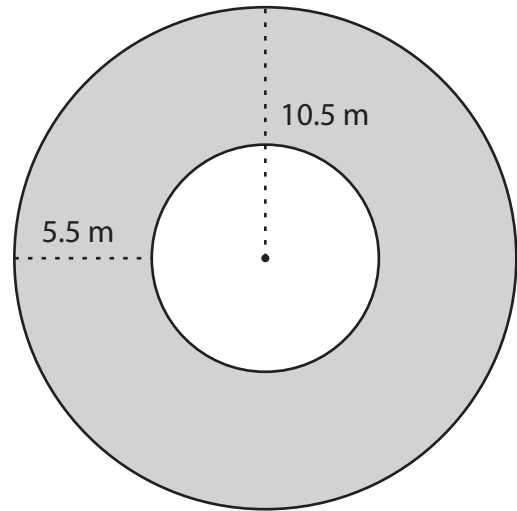
Find the area of the shaded region. (Use $\pi = \frac{22}{7}$ or 3.14)

1)



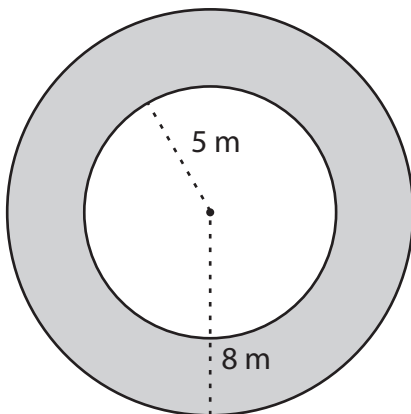
Area = 150.72 cm²

2)



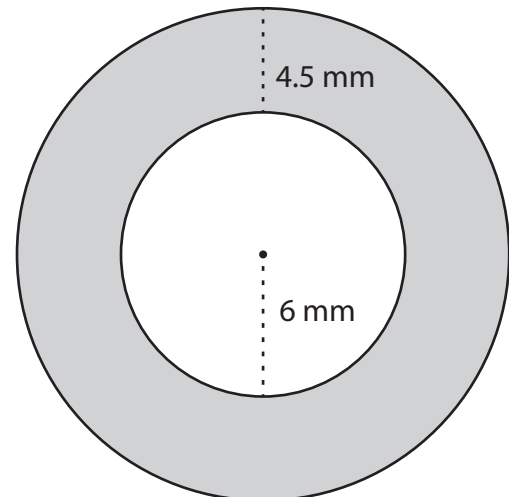
Area = 267.685 m²

3)



Area = 122.46 m²

4)



Area = 233.145 mm²