

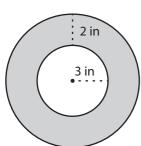
Area of Concentric Circles

Name _____

Score _____

AC:34

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 = $\pi R^2 - \pi r^2$; R = (2 + 3 = 5) in , r = 3 in

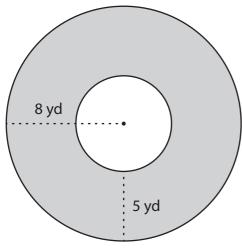
$$= \pi(R^2 - r^2)$$

$$= 3.14 \times (5^2 - 3^2)$$

$$= 3.14 \times (25 - 9) = 3.14 \times 16 = 50.24 \text{ in}^2$$

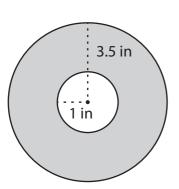
Find the area of the shaded region. (Use $\pi = \frac{22}{7}$ or 3.14)

1)



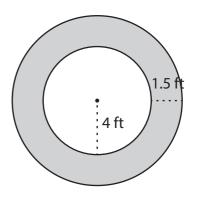
Area =

3)

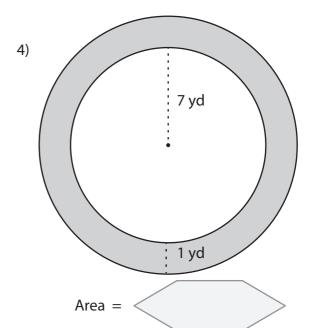


Area =

2)



Area =



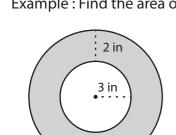


Area of Concentric Circles

Score _____

AC:34

Answer key



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

$$= \pi R^2 - \pi r^2$$
 ; $R = (2 + 3 = 5)$ in , $r = 3$ in

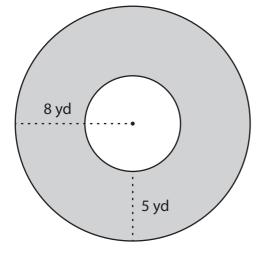
$$= \pi(R^2 - r^2)$$

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$$= 3.14 \times (25 - 9) = 3.14 \times 16 = 50.24 \text{ in}^2$$

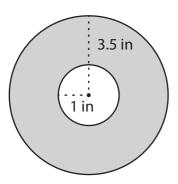
Find the area of the shaded region. (Use $\pi = \frac{22}{7}$ or 3.14)

1)



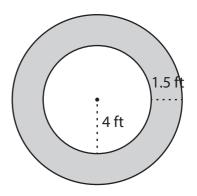
Area = 172.7 yd²

3)



Area = 35.325 in²

2)



Area = 44.745 ft²

