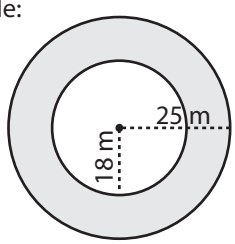
Name : _____ Score : _____

Concentric Circle - Area

Example:



Area of shaded region = (Area of outer circle) - (Area of inner circle)

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

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

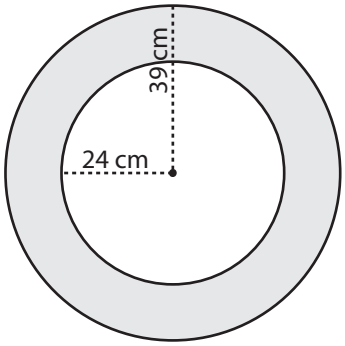
$= 3.14 \times (25^2 - 18^2)$

$= 3.14 \times (625 - 324)$

$= \mathbf{945.1\ m^2}$

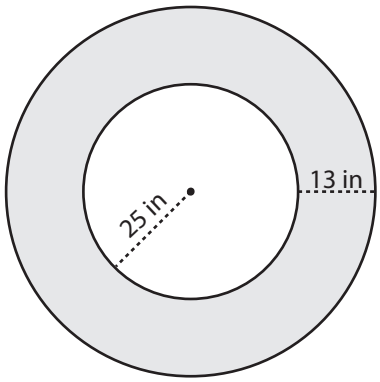
Find the area of each shaded region. Round the answer to tenth decimal place. (use π=3.14)

1)



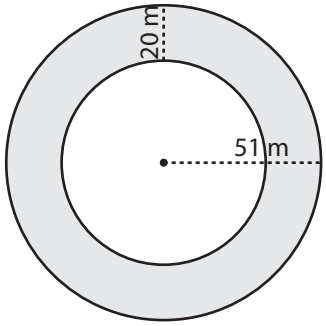
Area = _____

2)



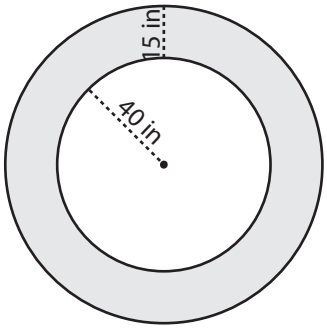
Area = _____

3)



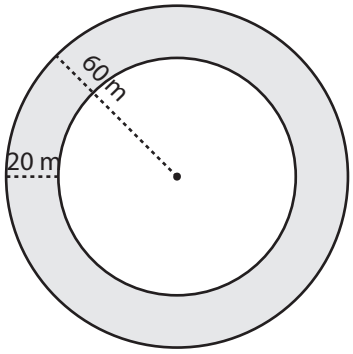
Area = _____

4)



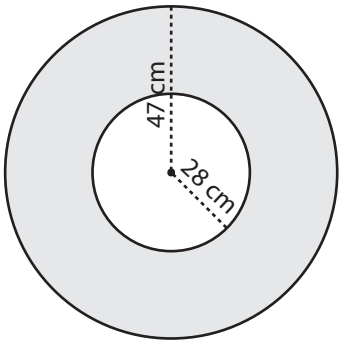
Area = _____

5)



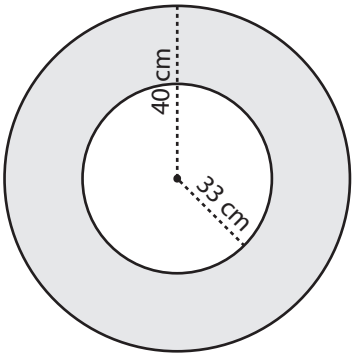
Area = _____

6)



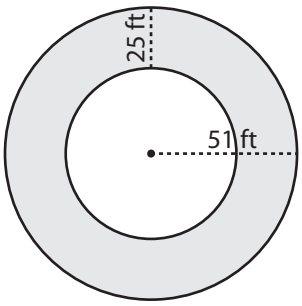
Area = _____

7)



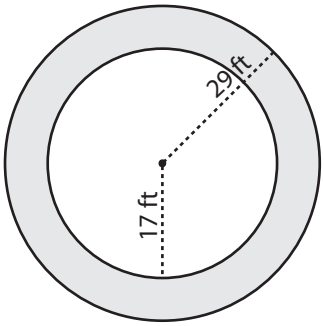
Area = _____

8)



Area = _____

9)

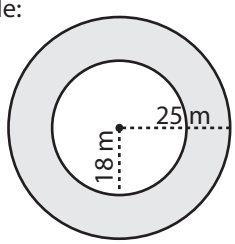


Area = _____

Name : _____ Score : _____

Answer Key

Example:



Area = ?

Area of shaded region = (Area of outer circle) - (Area of inner circle)

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

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

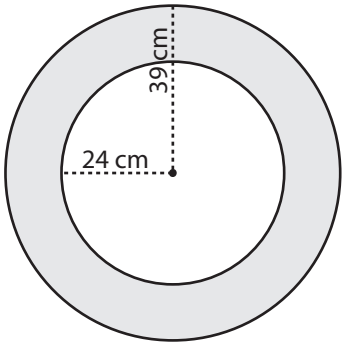
$= 3.14 \times (25^2 - 18^2)$

$= 3.14 \times (625 - 324)$

$= \mathbf{945.1\ m^2}$

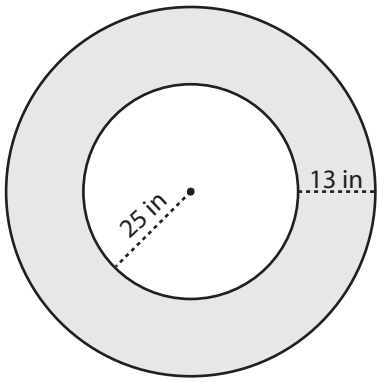
Find the area of each shaded region. Round the answer to tenth decimal place. (use π=3.14)

1)



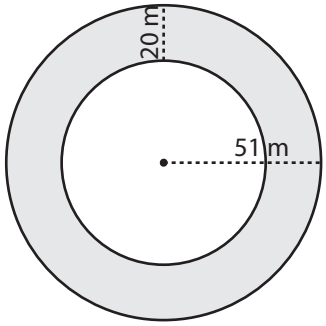
Area = **2967.3 cm²**

2)



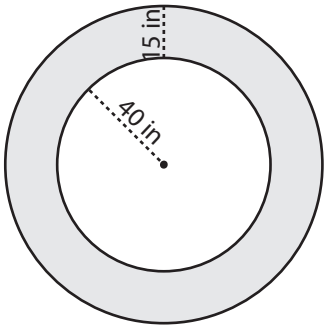
Area = **2571.7 in²**

3)



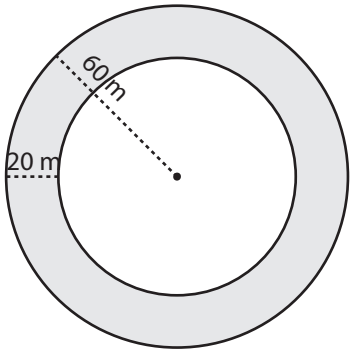
Area = **5149.6 m²**

4)



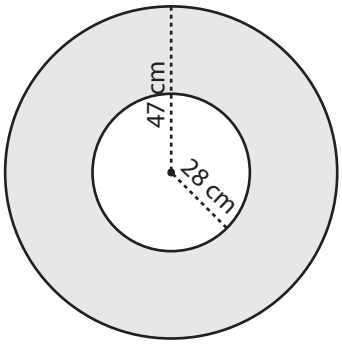
Area = **4474.5 in²**

5)



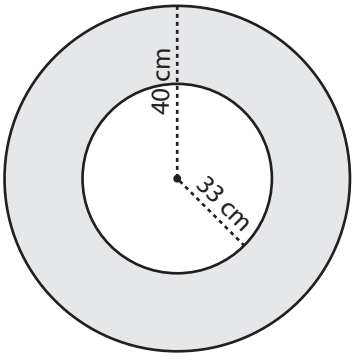
Area = **6280 m²**

6)



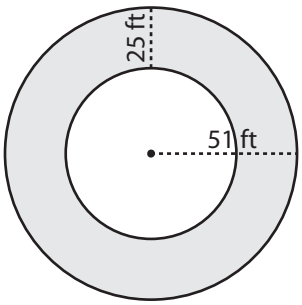
Area = **4474.5 cm²**

7)



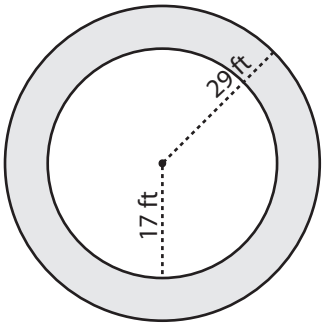
Area = **1604.5 cm²**

8)



Area = **6044.5 ft²**

9)



Area = **1733.3 ft²**