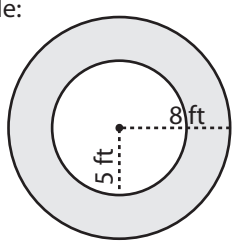
Name : _____

ES2

Concentric Circle - Area

Example:



Area = ?

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

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

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

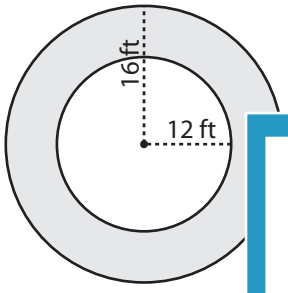
$= \pi (8^2 - 5^2)$

$= \pi (64 - 25)$

$= \mathbf{39\pi\ ft^2}$

Find the area of the shaded region in terms of π.

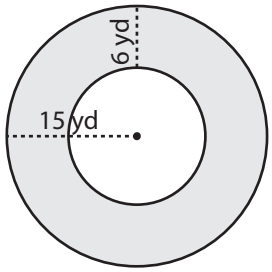
1)



Area = _____

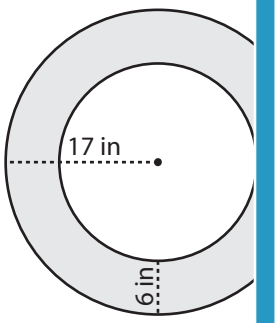
2)

3)

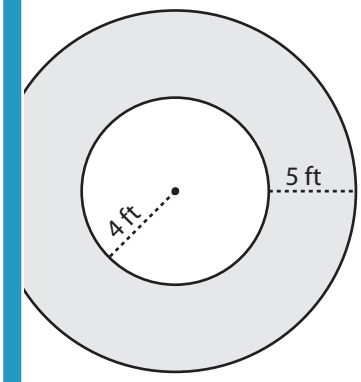


Area = _____

4)

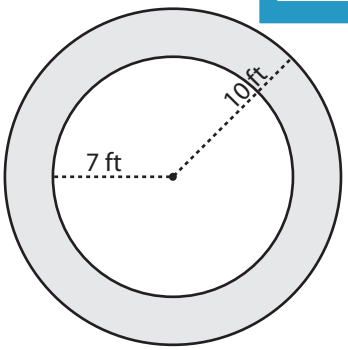


Area = _____

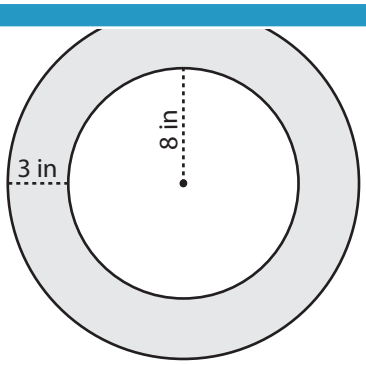


Area = _____

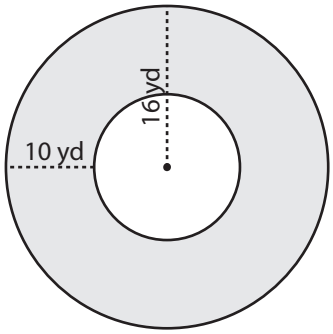
7)



Area = _____



Area = _____



Area = _____

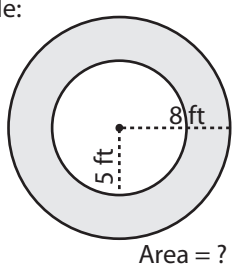
Name : _____

Answer key

ES2

Concentric Circle - Area

Example:



Area = ?

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

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

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

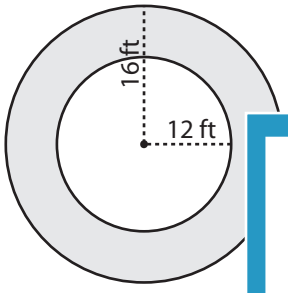
$= \pi (8^2 - 5^2)$

$= \pi (64 - 25)$

$= \mathbf{39\pi\ ft^2}$

Find the area of the shaded region in terms of π.

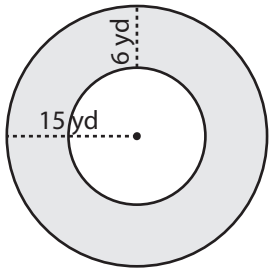
1)



Area = **112π ft²**

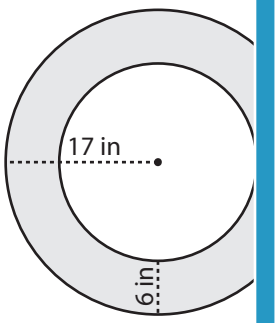
2)

3)

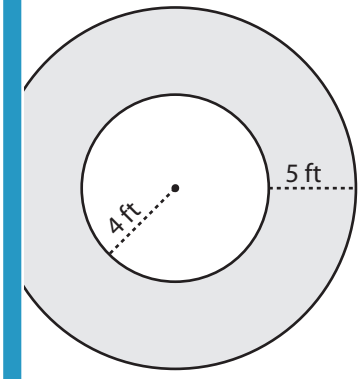


Area = **144π yd²**

4)

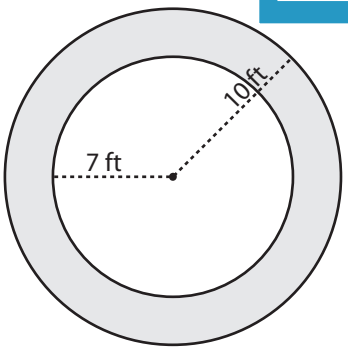


Area = **168π in²**

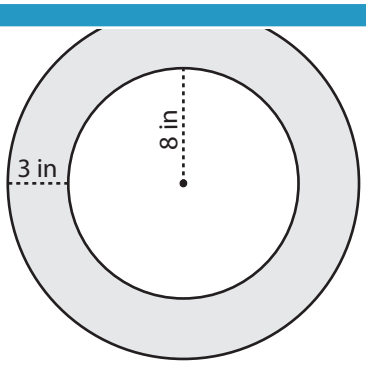


Area = **65π ft²**

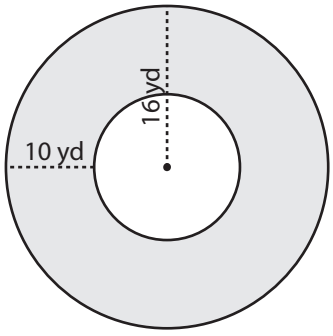
7)



Area = **51π ft²**



Area = **57π in²**



Area = **220π yd²**