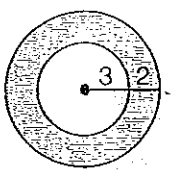


Name _____

Area of a Shaded Region

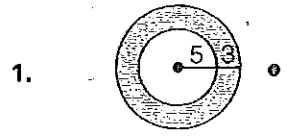
Example



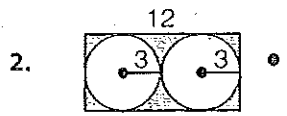
Find the area of the shaded region. Leave the answer in terms of π .

- Analyze the problem.**
Area of the shaded ring = (Area of) - (Area of)
- Review the needed area formula(s).**
Area of a circle = πr^2
- Solve.**
Shaded area = $5^2\pi - 3^2\pi = 25\pi - 9\pi = 16\pi \text{ units}^2$

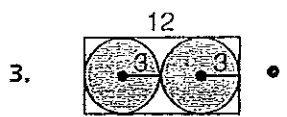
Match each diagram to its solution equation. Then find the area of each shaded region. Find and circle each answer in the box below.



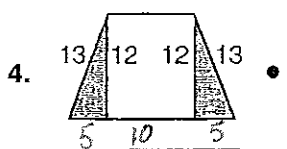
• (A of) - (A of) = _____ units^2



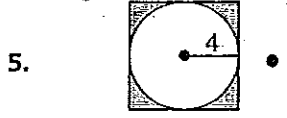
• (A of) - (A of) = _____ units^2



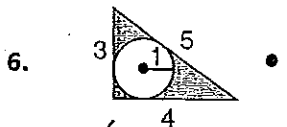
• (A of) + (A of) = _____ units^2



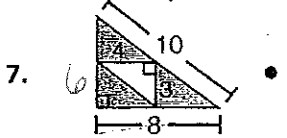
• (A of) - (A of) + (A of) = _____ units^2



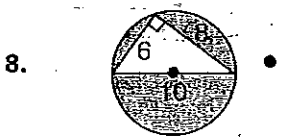
• (A of) - (A of) = _____ units^2



• (A of) + (A of) = _____ units^2



• (A of) - (A of) = _____ units^2



• (A of) - (A of) = _____ units^2

$6 - \pi$	18	18π	$25\pi - 24$	39π	60	$64 - 16\pi$	$72 - 18\pi$
2.86	18	56.52	54.50	122	60	13.76	15.48