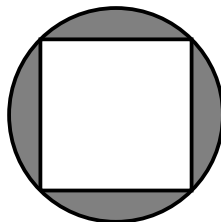# Inscribed Shapes
Prepared by Alex Katsenelenbogen

1. The circle above has a circumference of 20π , what is the area of the shaded region?

2. A rectangle is inscribed in a circle where the length is three times its height. If the circle has an area of 225π, then what is the area of the rectangle?

3. A circle is inscribed in a square. If the square has an area of $64in^2$, what is the circle's area? What is the circle's circumference?