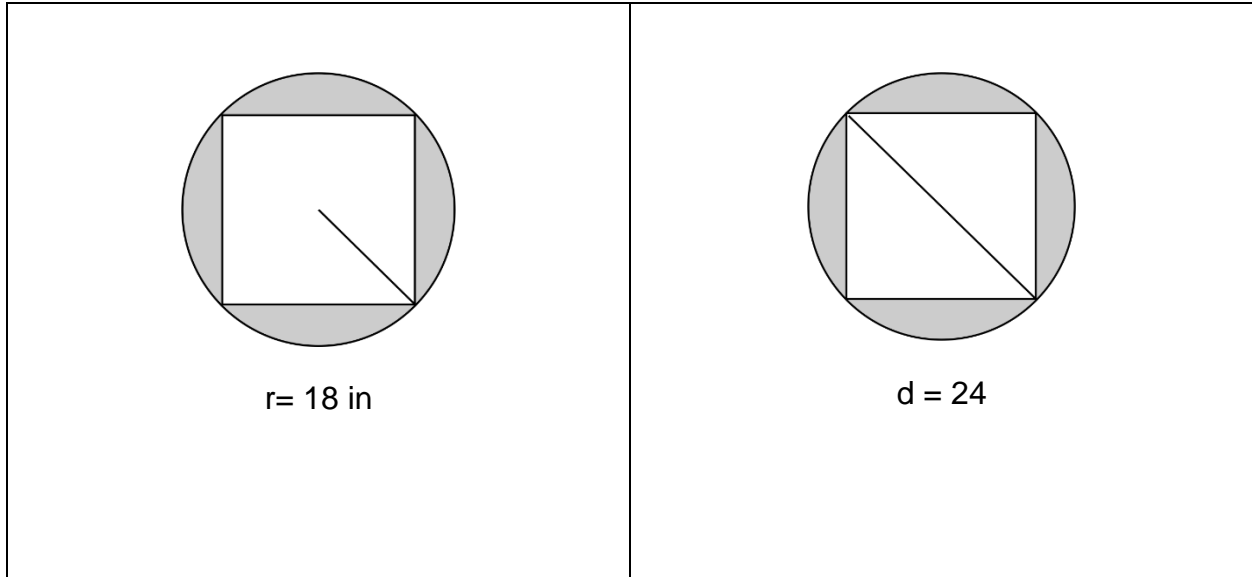


Mr. E Mike's: **The Square Peg in the Round Hole**

Find the area of the shaded region:

These formula's may help: [Area of a circle: $3.14 \times r^2$, Area of a square: s^2]



A square signpost is placed into a ground at a depth of 1.5 feet. The post hole has a radius of 2.8 find the volume of the cement needed to fill the hole with the post in it. Volume of cylinder – volume of the square prism.

$$V \text{ of cylinder} = 3.14 \times r^2 \times h$$

$$V \text{ of prism} = s^2 \times h$$

$$a^2 + b^2 = c^2$$

The state plans to place 1000 of these signpost along the roads. How many cubic feet of cement will that be?

