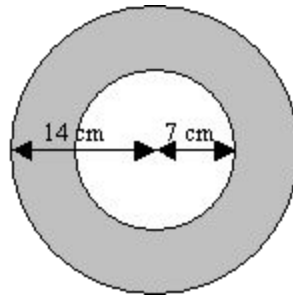


Name: _____

Date: _____

Area & Probability Bell Ringer



1. A dart is thrown at random onto a board that has the shape of a circle as shown below. Calculate the probability that the dart will hit the shaded region. (Use $\pi = 3.142$)
2. If the area of the shaded region was decreased by a factor of 2, how would the probability be affected? Please explain your reasoning.