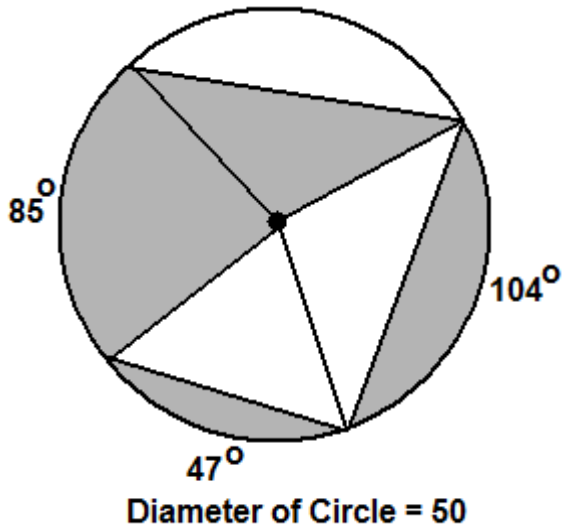
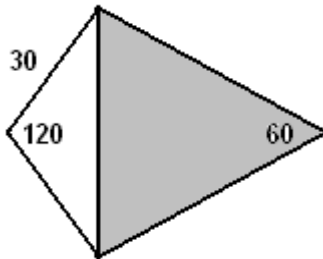


YOU MUST SHOW CONCLUSIVE WORK FOR FULL CREDIT!!!
Decimals are acceptable for probability!

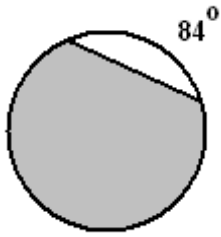
- 1.) Find the probability a randomly thrown dart hitting the figure lands in the shaded region.



- 2.) Find the probability a randomly thrown dart hitting the figure lands in the shaded region in the kite.



- 3.) Find the probability a randomly thrown dart hitting the figure lands in the shaded region.
Hint: Give the radius a variable name.



- 4.) A dog is tied to the corner of a shed in the shape of a regular octagon. Find the probability the dog is currently somewhere in the shaded region given the octagon has side length 30 feet and the dog has a 50 foot long leash.

