

Geometry Puzzle: Locust Locus Hocus Pocus

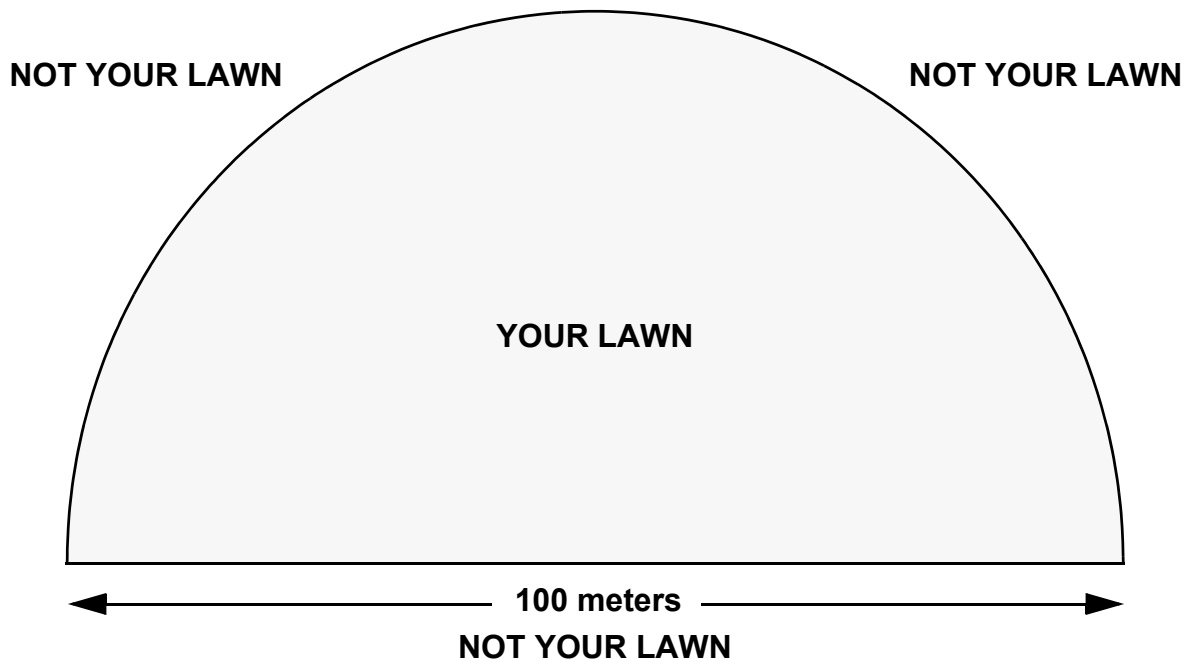
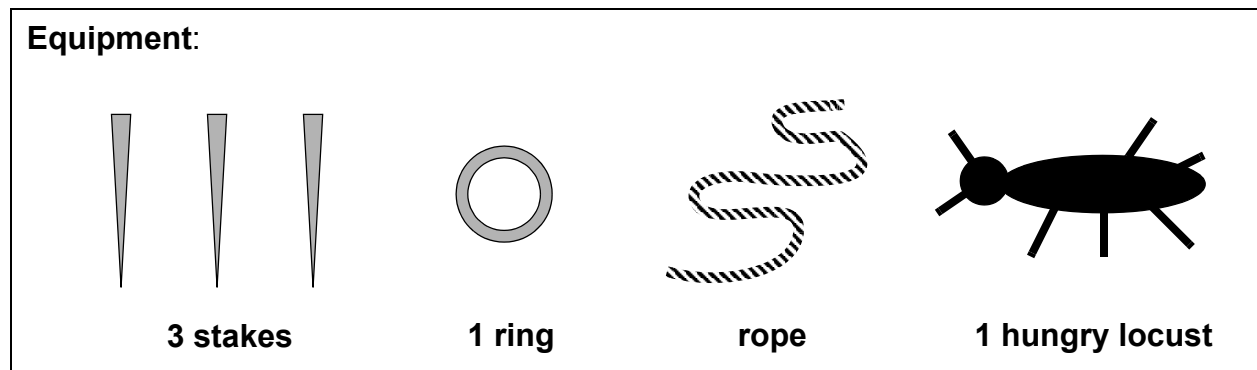
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General Instructions:

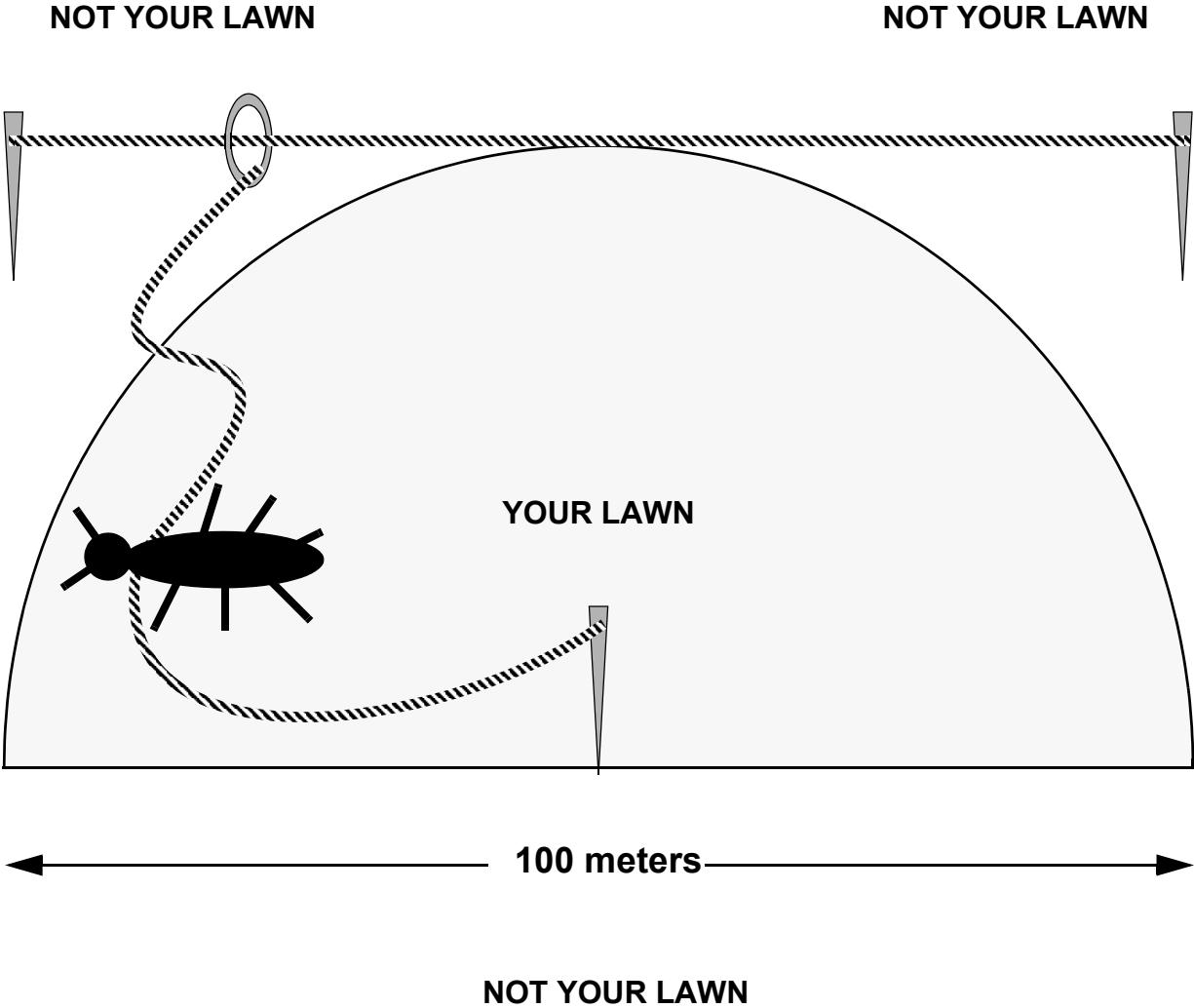
This is a test of your geometric visualization. The puzzle can be solved without calculations.

Your lawn is semi-circular in shape. You don't want to have to mow it. You have one large and very hungry locust that loves to eat grass. You also have three stakes, one ring, and an unlimited amount of rope. No other materials may be used.

Objective: Use the given materials to confine the locust in such a way that he can only eat your lawn. He may not eat *any* of your neighbors' lawns, but he must be able to eat *all* of your lawn. Your gracious neighbors have granted you permission to plant stakes on their property, but insist that you keep your locust off their property. Draw your solution on the diagram below. Include labels and comments explaining clearly just how you will confine your locust.



Geometry Puzzle: Locust Locus Hocus Pocus Solution



NOTE: Both ropes tied to the locust's neck are 50 meters long.