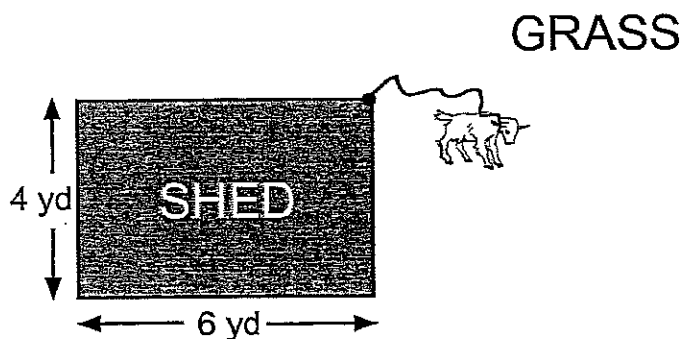


The Goat and the Grass

A goat is tied to the corner of a rectangular shed in a large field full of grass. The rope is 3 yards long and a plan view (from above) of the shed and field is shown below.



1. Sketch the area of grass the goat can eat. Your sketch does not have to be accurate.
2. Calculate the area of grass that the goat can eat.
Show all your reasoning.

3. What length of rope would enable the goat to eat 10 square yards of grass?
Show all your reasoning.
