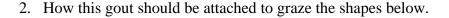
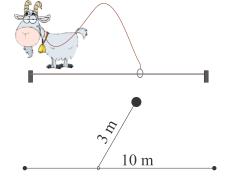


Math 5a, homework 19.

1. We'll stretch a rope between two stakes in the meadow. To the second rope, we'll tie one end to the goat's collar, and on the other, we'll make a loop that can freely slide along the rope. What area will the goat graze?

Draw the picture, 1 cm. for 1 m.





- 3. Sides of the rectangle have a ratio of 4:7, and its longer side is 31.5 cm. Find the shorter side, perimeter, and area of this rectangle.
- 4. Create several possible proportions from numbers:

5. Solve the equations:

a. 
$$2\frac{5}{8} - \left(4\frac{3}{15} - y\right) = -1\frac{1}{4}$$
;

a. 
$$2\frac{3}{8} - \left(4\frac{3}{15} - y\right) = -1\frac{1}{4}$$

c. 
$$|x+1| = 5$$
;

$$b. \ \frac{2-x}{3} - \frac{6-x}{2} = 0$$

d. 
$$|4 - 3x| = 2$$

6. Write the number 100 in binary system, system based on 3, system based on 4.