2. Robot Sizing

Name_____

Directions: Please show all work, describe how you got the answer, and circle your final answer. If you use a calculator, say so, but also write out the calculations you did with the calculator.

The Problem: You are interested in determining how wide your robot is to see if it can fit through a maze that you set up. The maze is 20 cm wide. The problem is that you don't have a ruler around. You remember that 1 module (1M) is equal to 8 mm and then you observe that when you look at the back of your robot it is made up of one long 13M beam plus the wheels on both sides. You measure each wheel to be a width of about 4M. Will your robot fit in the maze?

4mm   13mm   4mm