



STUDENT \_\_\_\_\_

GROUP \_\_\_\_\_

INSTRUCTOR \_\_\_\_\_

DATE \_\_\_\_\_

## Math Lab Lesson #6 Group Activity:

### Proportions

Measuring Activity: What is the diameter of the circle?

You have a tape measure, a ruler, and a quarter. Use them to answer the following question:

### What is the diameter of the circle on the board?

Note: You are not allowed to use the tape measure to directly measure this diameter. That would be a silly activity. You must figure out a way to measure the diameter indirectly! Show your work 😊

Step 1: Once you have a plan for how to do this, sketch your plan below and explain what you are going to do.

Step 2: Show all of your calculations below.

Step 3: Write your estimate on the board



**WORK SPACE:**

TURN OVER →



### BOSS LEVEL

The diameter of the moon is approximately 3,474 kilometers, and the distance from the moon to the earth is approximately 384,400 kilometers. If you went outside with your quarter and wanted to hold it up so that it completely covers the moon, **how far away would you have to hold it from your eye?**