

BASIS header:

## Count Your Drops Lab! (20 points)

Take a guess! How many drops of water will it take to equal 1 milliliter? \_\_\_\_\_ drops. (2 points)

Follow the directions to find the number of drops in 1 mL of water, then answer the questions.

You will need a \_\_\_\_\_, a \_\_\_\_\_,

and a \_\_\_\_\_. (2 points)

Procedure:

1. Fill a graduated cylinder with 50 mL of water.
2. Count the number of drops it takes to raise the water level to 51 mL. Record the number in the chart
3. Leave the water in the graduated cylinder and count the number of drops it takes to raise the water to 52 mL. Record the number in the chart.
4. Leave the water in the graduated cylinder and count the number of drops it takes to raise the water to 53 mL. Record the number in the chart.
5. Leave the water in the graduated cylinder and count the number of drops it takes to raise the water to 54 mL. Record the number in the chart.
6. Leave the water in the graduated cylinder and count the number of drops it takes to raise the water to 55 mL. Record the number in the chart.
7. Calculate your mean and round to the nearest tenth and answer the following questions.

# of drops to 51mL	# of drops to 52 mL	# of drops to 53 mL	# of drops to 54 mL	# of drops to 55 mL	Mean

Data table is worth 6 points

Based on your mean, how close were you to your guess? (2 points)

Based on your mean, how many drops would it take to make 1 liter? Show your work. (2 points)

What is the volume of water in each cylinder? (2 points each)

