

Name:
Class:
Date:

Water Drop

Purpose:

What is the difference between qualitative and quantitative observations?
What are some variables that may affect the number of drops that will fit on a penny?

Materials:

Penny
Water
Medicine droppers
Ruler

Procedure:

1. Select a penny and a dropper.
2. Place a few drops of water on the penny and record your observations. (Try to make both qualitative & quantitative)
3. Continue to place drops of water on the penny until the water appears about to fall off. Stop and record observations.
4. Compete with your lab-mates to see who can get the most drops of water on the penny.
5. Who at your table is consistently getting more drops? Observe their technique. What variables (conditions) might be responsible for their number of drops? Copy that technique and repeat the water drop to see if you can improve the number of drops.

Observations/Data: (organize into a table of your design)

Questions:

1. What are two examples of quantitative variables from the activity?

2. What are two examples of qualitative variables from the activity?