

Measurement Lab Makeup Data

Use the following values for theoretical measurements if you weren't able to take all measurements during class:

- **For #1:** The length of the front of a lab drawer is 36.75 cm
- **For #2 & #3:** The textbook measures 28.50 cm (length) by 23.95 cm (width) by 3.85 cm (height).
- **For #4:** The water in the beaker was 21 mL. When poured into the graduated cylinder, the volume was found to be 20.5 mL.
- **For #5:** When a cube measuring 1 cm x 1 cm x 1 cm is placed in a graduated cylinder, the water rises by 1 mL.
- **For #7:** Here are the measurements for a metal cylinder – radius is 0.85 cm, height is 1.50 cm. By displacement, the water rises by 3.5 mL.
- **For #8:**
 - The mass of a group of pennies in a cup is 176.76 grams. The mass of the empty cup is 4.81 grams. The mass of one penny is 2.50 grams.
 - Pennies are made of a blend of different materials. Over the years, different pennies have different amount of each substance – each substance has a different mass.
 - Counted number of pennies is 71.
- **For #9:**
 - The mass of an empty graduated cylinder is 37.63 grams. The mass of a graduated cylinder with 50.0 mL of water is 86.95 grams.
 - 1 mL of water = 1 gram
 - 1 mL of water = 20 drops