m = 2.4 grams Part A: Rounding Off Part B: Significant Figures in Calculations 1.5×1049 Part C: Converting Length $d = 19.3 \text{ g/cm}^3$ v = ? mL Part D: Converting Volume Part E: Converting Mass 19.3 q = 0,1243523 cm3 2.4 ª . Part F: Percent by Mass 25.5 35.5 = 10,12 cm3 Part G: Converting Temperature

Part D: Converting Volume

our observation for this part is 946 mL





Part E: Conversion for Mass

in SI units: 16.70 kilograms in Imperial units: 36.82 lbs





Part F: Percent by Mass

Find mass percent of about 1 gram of sugar in 15-20 mL of water.

Record each measurement with precision, and show calculations.

Sugar



- Pre-weigh a 250 mL beaker.
- Add about 1 gram sugar.
- Record the new weight.
- Add about 15-20 mL water.
- Record the new weight.
- What is the percent of sugar in the total weight of the sugar water?



Part G: Converting Temperature

- Get a thermometer from the stock room.
- Start with a 250 mL Beaker
- Fill about 1/3 of it with water
- Measure the temperature
- Double the volume with ice.
- Measure the temperature.
- Add about 5 gm rock salt
- Measure the temperature.



K = C + 273.15F = C (1.8) + 32C = (F - 32)/1.8



Questions?

