I. Fill in the data table below as you watch the lab on the video.

mass of empty test tube	
mass of test tube with copper oxide (before reaction)	
mass of test tube with copper (after reaction)	

II. Calculations: SHOW ALL WORK IN THE SPACE PROVIDED.

- Use the data to calculate the mass of copper oxide.
- Use the data to calculate the mass of copper.
- Use the two previous calculations to calculate the mass of the oxygen that was driven off.
- Using molar masses, calculate the moles of copper and oxygen.

mass of copper oxide	g
mass of copper	9
mass of oxygen	9
moles of copper	mol
moles of oxygen	mol

- III. Conclusion Questions: Answer each question completely. SHOW ALL WORK!
 - 1. Within bounds of experimental error, use the mole ratio to write the formula of the compound.
 - 2. What is the name of this compound? (Hint: you need a Roman numeral in the name)
 - 3. A compound of calcium and bromine is analyzed in the lab. A 20.0 g sample contains 4.00 g calcium. What is the empirical formula of the compound?

4. Find the empirical formula of a compound found to contain 26.56 % potassium, 35.41 % chromium, and the remainder oxygen.