Emphinical formula - Simplest whole number Stoichiometry Ac = average mass of one atom of element x12 ratio, ionic compounds mass of one atom of carbon-12 Molecular formula - total number of atoms 2H2 + 02 -> 24.0 of each element present in a compound, organic Avogadro constant = 6,02 × 1023 (atoms/mol) 2mol : 1mol : 2mol Molecular Emphinical Number of moles = mass of substance NO 40 Met 02 -> MO Cylin Calls 1. my mass = atomic mass x moles (element) x100 20cm2: 10cm2 Ch Coho bundance to seem relain ratio of MADIE 2H2+02 -> 2 H2O NH42ammonium carbonate hydrogencarbonate MCOZ at (rtp) norm temperature and pressure hydroxide OU-(20°C and 1 atm) one mole of any gas NO<sub>2</sub> vitrate phosphate 24 dm3. CHAPTER 1 moles and equations sulfate Deducing stochiometry by titroition Concentration (mol/dm3) 1. Calculate the number of moles of each reagent. - number of moles of solute 2. Deduce the simplest mole ratio of reagents. volume of solution 3. Write the equation. Just to determine the amount of substance (s) Solid present in a solution.) (1) liquid (g) gas 1 Get some acid of known concentration ? Record the final buretter reading. (aq) aqueous a reading = titre 2. Fill a clean burette with the acid 8. repeat this process , adding acid drop 3. Reward the initial burette reading rough 7 2 3 byte drop m Measure a known volume of the alkali into a final bwette 38.65 36.40 34.75 37.60 titration flak wing a graduated (volumetric) 9. Repeat again, until two titres no more readmalans initial buretter 4.00 1.40 0.00 pipette. 1.40 than 0.10 cm3 apart. 5. Add an indicator solution to the alkali in the 10. Take the average of these two fithe 35.00 34.75 threl cm3 35.20 34.65 flask. values. 5. Slowly add the acid from the buretter to the flask swirt until the indicator changes colour