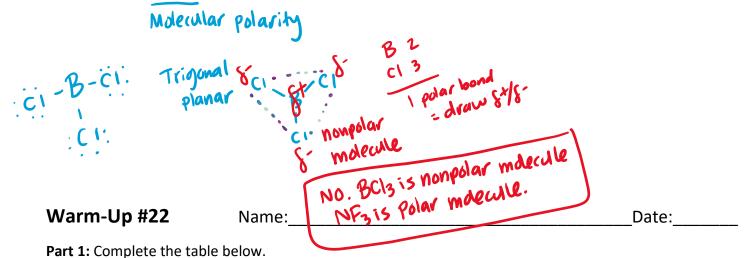
Warm-Up #22

Name:

Part 1: Complete the table below.

	Lewis Structure	Draw the Molecule Shape	Shape Name	Bond Polarity	Molecular Polarity	IMF
NF3	: F - N - F: : F:	5-5-55	Tri-Jonal Pyramid	N 3 F 4 I Polar	polar	London t Dipde- dipde

Part 2: Will NF₃ dissolve in BCl₃? Explain your reasoning.



Lewis Structure Draw the Molecule Shape Shape Bond Molecular IMF Polarity Polarity Name NF₃ rigonal N 3 Polar ondon F48 pramide -11= Dipole. Polar 7 - non polar ROLAN Part 2: Will NF3 dissolve in BCl3? Explain your reasoning. No. They do not have same molecular polarity = Dissolve the same molecular Polarity Trigonal Sci et cis Molec. B-CI Polarit Ċ hames = Nonpolar

Diatomic Molecule 12 orange tape Part 3: Name/write the formula of each compound. Calcium acetate 1. 3. $= (c_{a}(c_{2}H_{3}O_{2})_{2})$ Ca²⁺ C2H302 iodine 2. S3O5- Molecular/Covalent Iron (III) oxide 4. Fe 3+ Fe203 trisulfur pentoxide Part 4: Solve. Show all work. Round for significant figures and box final answers. $2(c_{1}) + 3(s) + 12(o)$ How many moles are in 457 grams of $Cr_2(SO_4)_3$? 5. 2(52) + 3(32.07) + 12(16) 457 g Cr2 (SO4)3 1 mol (r2 (Soy)3 392.21 9 1.65 mol 1.17 mol Crz (504)3 How many particles are in 2.31 grams of Na₂O? 6. 1 mol Nazo 61.989 Nazo = 0.03727 $mol Na_20$ Nazo 6.02 × 1023 Part. Nazo f 0.63727 2.24 × 10 Part Nazo Nazo Part 3: Name/write the formula of each compound. 1. Calcium acetate 3. 2

2. S₃O₅

5.

6.

4. Iron (III) oxide

Part 4: Solve. Show all work. Round for significant figures and box final answers.

How many moles are in 457 grams of $Cr_2(SO_4)_3$? H_2 Draw Lewis Structure How many particles are in 2.31 grams of Na₂O? F_2