11 Jun 25:

Prime factorization to find LCM & GCD: write the number as a product Jumbers. if p, q are factors of both a, b then $m \geq 2$, $h \geq 0$ B x 9/12 6= For each prome factor, prick it's smallest power across both a 46 $GCD(a_1b) = \beta^{m-2} \times g^n$ 2 CM (916) = pm x 9 n+2 x y (916) = p" x q" x y [For each prime factor, pick it's factor, pick it's highest power across a 46]

Factors 1,2,3,6,9,18,27,54 6CD = 2 × 3 22×35 ax3 = L CM 6x2 = L CM

-> Find GCD & LCM of (66, 44) hong prime factorization. $66 = 2 \times 33$ $= 2 \times 3 \times 11 = 2 \times 3 \times 11$ 44 = 2×22 $\frac{1}{2} \times 3 \times 11$ = 22 product of powers HD: Use prime factorization to Find LCM, GCD of (1) 256, 384 (2) 96,64 (3) 50, 75(4) 2025, 162 576, 1024 256, 384, 1024 2025, 162, 450 96,384,162

HD: Simplify the following fractions $(1) \frac{22}{96} (2) \frac{33}{66} (3) \frac{123}{427} (4) \frac{56}{92}$ (5) 99 (6) 243 (7) 384 (8) 28 132 2025 512 70 Simple fraction means numerator shouldn't have any common factors other than ! otherwise just find their GCD and dride them both with GCD to make it moto simple fractions. To find GCD, you can use any of the methods we learn to be learn to be to be

$$90(2432) = 8$$