Vowels: (mod 5) Vowel(and y)s: (mod 6) Consonant(not y)s: (mod 20)Consonants: (mod 21) 1. For each number, list 4 equivalent numbers of the same type $1 \pmod{5}$: $1 \pmod{6}$: 1 (mod 21): 1 (mod 20): 40 (mod 5): 40 (mod 6): 40 (mod 21): 40 (mod 20): 2. For any particular number $x \pmod{n}$, there is a unique number y between 1 and n with $x \equiv y \pmod{n}$. This basically means "find the letter," except we stick with numbers. Find this number y for each x: $0 \pmod{5}$: $0 \pmod{6}$: $0 \pmod{21}$: $0 \pmod{20}$: $-1 \pmod{5}$: $-1 \pmod{6}$: $-1 \pmod{21}$: $-1 \pmod{20}$: 40 (mod 5): 40 (mod 6): 40 (mod 21): 40 (mod 20): This number is called the **standard representative** of the number. 3. For each arithmetic problem, write down the standard representative of the answer. $20 + 30 \pmod{5}$ $20 + 30 \pmod{6}$ $20 \times 30 \pmod{5}$ $20 \times 30 \pmod{6}$ $20 - 30 \pmod{5}$ $20 - 30 \pmod{6}$

