

Post 2

- Choose one of your classmate's posts and using the letters of either their first, middle or last name, create a set and write it in roster notation.
- Determine the number of distinct subsets of the set.
- Determine the number of distinct proper subsets of the set.

Post 2 Example

Name: Susan Jane Stoltenburg

$N = \{s, t, o, l, e, n, b, u, r, g\}$

Since there are 10 distinct elements in the set, the number of distinct subsets would be $2^n = 2^{10} = 1024$.

The number of distinct proper subsets would be:

$$\begin{aligned}2^n - 1 &= 2^{10} - 1 \\ &= 1024 - 1 \\ &= 1023.\end{aligned}$$