

Post 1

- Using your first, middle, and last name, create a universal set and write it in roster notation. If you do not have a middle name, use your first and last name only.
- List all the subsets of your universal set.
- How many subsets did you list? How do you know how many subsets a set will have?
- List all the proper subsets of your universal set. Are all subsets of a set also proper subsets of a set? Why or why not?

Post 1 Example

NOTE: Not all parts of the Discussion are included in this Example. Read the Discussion Question thoroughly and respond to all parts of the Question.

Name: Megan Joy Ryan

Universal Set

$$U = \{\text{Megan, Joy, Ryan}\}$$

Subsets:

$\{\text{Megan, Joy, Ryan}\}$, $\{\text{Megan, Joy}\}$, $\{\text{Megan, Ryan}\}$, $\{\text{Joy, Ryan}\}$,
 $\{\text{Megan}\}$, $\{\text{Joy}\}$, $\{\text{Ryan}\}$, $\{\}$

There are 8 subsets.

Proper Subsets:

$\{\text{Megan, Joy}\}$, $\{\text{Megan, Ryan}\}$, $\{\text{Joy, Ryan}\}$, $\{\text{Megan}\}$, $\{\text{Joy}\}$, $\{\text{Ryan}\}$, $\{\}$