

The empty set 1

- If a set has zero elements, it is called the empty (or null) set
 - Written using the symbol \emptyset
 - Thus, $\emptyset = \{ \}$ **← VERY IMPORTANT**
 - If you get confused about the empty set in a problem, try replacing \emptyset by $\{ \}$
- As the empty set is a set, it can be a element of other sets
 - $\{ \emptyset, 1, 2, 3, x \}$ is a valid set