January 24, 2018

Name		
	Score	

Show all work to receive full credit. Supply explanations when necessary. You must work INDIVIDUALLY.

- 1. (2 points) Let A be the set of all real numbers greater than 9. Is A well defined? Briefly explain.
- 2. (1 point) List one number that is an element of the set \mathbb{N} and one number that is not an element of \mathbb{N} . Say which is which.
- 3. (2 points) Let L be the set of letters in the word tattletale. Write L in roster notation and then determine n(L).
- 4. (2 points) Circle each set that is equal to $\{a, b, c\}$.

 $\{a,b,c\}$ $\{b,c,a\}$ $\{a,a,b,b,c,c\}$ $\{a,b,c,d\}$ $\{a,b\}$

- 5. (2 points) Write this sentence is words: $13 \in \{1, 3, 5, 7, 9, \dots\}$. Is the sentence true or false?
- 6. (1 point) Let $M = \{x \mid 5x + 3 = 23\}$. Which notation has been used to describe the set M: verbal, roster, or set-builder? Rewrite M in roster notation.