Name:

Section 6.1
Let $X$ be the set of integers from 4 to 300 inclusive.

1. How many elements are in $X$ ?
2. How many elements of $X$ are even?
3. How many elements of $X$ are odd?
4. How many elements of $X$ are divisible by 5 ?
5. How many elements of $X$ are greater than 72 ?
6. How many elements of $X$ have all distinct digits?
7. How many elements of $X$ contain the digit 7?
8. How many elements of $X$ do not contain the digit 0 ?
9. How many elements of $X$ are greater than 101 and do not contain the digit 6 ?
10. How many elements of $X$ have digits in strictly increasing order? (examples: 125, 48, 3)
11. How many elements of $X$ are of the form $a b c$ where $a \neq 0, a<b$ and $c<b$ ?
12. How many three digits elements of $X$ are there where $a<b$ or $c<b$ ?
