Sarah Crowley - Algebra Homework Section 1.4 10/29/2019
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1.) irrational numbers
2) {..., -3, -2, -1}
3.) Counting
4.) Intergers
5.) line
6) empty
7.) Whole
8) rational
9) $\sqrt{3}$

51. -2, 13
a. positive integers. = 13
b. rational numbers. = -2, 13
c. reae numbers. -2, 13
d. whole numbers - 13

17.) True - 7 is a naturae number
19.) False -7 is a whole number
21.) False 1/3 is an integer
23) True 0.57 is a rationae number
25) False $\sqrt{2}$ is a rationae number
27) True -1/5 is a rational number
29.) True $\sqrt{5}$ is an irrational number
31) False every whole number is a naturae number
33) True - The symbol $\emptyset$ is used to represent the empty set
35) False - Every reae number is a rational number
37.) True - Every rational number is a reae number
39.) True - Some reae numbers are not rational numbers
41.) false - Every negative number is a negative integer
43) True - The symbol $\mathbb{R}$ is used to represent the set of reae numbers
45) False - every number greater than zero is a positive integer
47.) True when the negative integers, the positive intgers and 0, are combined the integers are formed.

49.) a. 3, 77 - positive integers
b. 0, 3, 77 - whole numbers
c. -2, 0, 3, 77 - integers
d. $-\frac{5}{7}$, 0, -2, 3, $6\frac{1}{4}$, 1.63, 77 - rationae numbers
e. $\sqrt{3}$, $\sqrt{7}$ - irrationae numbers
f. $-5/7$, 0, -2, 3, $6\frac{1}{4}$, $\sqrt{7}$, $-\sqrt{3}$, 1.63, 77 - reae numbers