## **Numbers**

Work with a classmate. This does not need to be turned in.

## Part 1:

For each of the following sets of numbers, give a definition (as best as you can), give an example of a number in that set, and give an example of a number that is not in that set.

- 0. N, natural numbers
- 1.  $\mathbb{Z}$ , the integers
- 2.  $\mathbb{Q}$ , rational numbers
- 3. Irrational numbers

## Part 2:

After our class discussion, fill in the following	statements:	
1. The set ${\mathbb Z}$ of integers is closed under	and	, but not
2. The set $\mathbb Q$ of all rational numbers is the set	of all numbers tha	t can be expressed as
3. For example, the number 0.25 is rational be	ecause it can be ex	pressed as
4. Rational numbers are closed under	,, and	·
5. Real numbers ( $\mathbb R$ ) are the set of all	and	numbers.
6. Real numbers are closed under (same as the rational numbers)	ers)	, and
Part 3: Discuss the following with a classmate:		
Rational numbers can be formed from intege do we form real numbers from rational numbers		