Use Smartboard	"XC5567 121 Def	niting
Math 2	Name Ker	9-30-12
Lesson 1-1: The Real Number System	Date	8-30-13
 You will be working towards the following learning goals in this I can classify real numbers as rational or irrational accordance of each. I can explain why the sum and product of two rational numbers is a can explain why the why the sum of a rational and irrational irrational and it can explain why the product of a nonzero rational and improved in the company is a company to explain why addingers always produces an integer. 	rding to their definitions of mbers is rational. ional number is irrational frrational number is irrati	l. onal.
Throughout your mathematical career, you have worked with all System . Each of you has been randomly given a number from the number here Now please stick your number under the	ne real number system. R e number subset where yo	ecord your ou think it fits best.
After you have made your placement of your number, think about 1. Why do we have to classify numbers?		A.
2. What are some other subjects/topics that get classified?	Set.	2 12
Science - Animals	music- food-	
Notes:	remides	
	student for	<i>></i>
Natural Numbers - Counting 45 1, 2, 3, 4, 5, 6, 7. Uhane coon Su previous # by 1. Whole Numbers -	occeeding # is gra	okathan its
The set of natural #s and O.		1
Integers - The Set of positive whole whole works	45 3112,33,	No Paulic
Rational Numbers - At that Con by Cxpressed exactly integris ly luding tero o ; a do Irrational Numbers -	rominator.	two /
Another that can be written as no veneropeating decimals.	on-terminating	
Real Numbers - fill vational & irrational #5		

After what we discussed, are all numbers placed correctly? Which numbers could be in multiple spots? Move your number to the most specific location, if it is not already there.

OVER →

Directions: Check ALL the boxes that apply to each number.

		Natural	Whole	Integer	Rational	Irrational	Real
		1 (acara)	***		2100701101		
1.	-7 89			V			
2.	π						/
3.	$\sqrt{0.36}$						
4.	$-\frac{2}{3}$						
5.	0						V
6. D	4.1439 oesn't repeat						
7.	-5 -5						
8.	2 1 9						
9.	1.48						~
10.	<i></i>	/		1/			

When you are done, compare your answers with the people around you.



Math	2

Math 2
Lesson 1-1 Follow-up Activity

Name	
Date	

In the investigation for Lesson 1-1, you saw an example of a graphic organizer of the Real Number System. Now you are going to create your own graphic organizer for our number system. The categories should include the following:

NOTE: These are not listed in any particular order.

integers, whole numbers, irrational numbers, rational numbers, real numbers and natural numbers.

Seriod Starnic

on snowed folder real # diagram (smart board file)

Once you have completed your graphic organizer, place the following numbers in the most specific category.

$$0, 4, -9, \frac{-5}{3}, \sqrt{4}, \frac{-14}{7}, \sqrt{17}, -\overline{4}, \pi, 3^3, 2.9, \frac{\sqrt{3}}{2}, .23, \sqrt{49}, -11, 117, -5\pi + 1, \frac{1}{9}$$

(Answer Keyorn mart board) Lesson 1-1 Graphic organitur Answer by

Lesson 1-1 HOMEWORK:

Give ti	ne <mark>most specific</mark> classific rational, irrational, i	_				
1.	$\sqrt{25}$ $\stackrel{\leftarrow}{\smile}$	211	3. 0	4. $\frac{2}{3}$		
	natural#	Inter	unde #	rational		
5.	√31 irrutional	6. $\frac{12\pi}{24}$	7. 3.8 <u>rutional</u>	8. $\frac{48}{12}$		
9.	256.812 Vational	10. 5.2 • 10 ⁻⁸				
11.	The product of two ratio be determined). How do you know this?		vational (ra	tional, irrational or cannot		
12.	The sum of two integers How do you know this?	is always a(n)		7=5 -2=-5 12=0		
13.	The sum of two rational determined). How do you know this?		ational (ration	nal, irrational or cannot be		
14.	The sum of an irrational number and a rational number is always $\frac{1}{1}$ (rational, irrational or cannot be determined). How do you know this?					
15.	The difference of two integers numbers is always a(n) How do you know this? \(\{ \tau \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					
16.	The product of a non (rational, irrational or of How do you know this?	annoi de aciel minea).	irrational number is alw	vays Irrational		
17.	The product of two inte How do you know this?	gers numbers is always a	a(n) Troleyn	_•		