Name	Γ	Date
	on 1.2 Notes	Algebra 2
Notes	s	
•	tive: Be able to classify numbers as real number, irrational, rational, integer, and/or natural number.	ger, whole
Fill in	the Venn diagram on the back of this sheet.	
Inves	tigation	
1.	Go to the class web page and open the file "IrrationalRational.gsp" in Tl Sketchpad.	ne Geometer's
2.	You should see three strips of colored rectangles. The yellow rectangles measurement of 1 unit, such as 1 cm or 1 yard.	represent a
3.	The red rectangles measure out a rational number. Notice that the ration written as a fraction. You can double-click the <i>numerator</i> and <i>denomina</i> value of the fraction.	
	The blue rectangles measure out an irrational number. You can double-calculation to change it to a different irrational number.	
	Use the selection tool (the arrow) to select the last yellow rectangle. Pre your keyboard, and notice that this increases or decreases the number of	rectangles.
6.	Now you are ready to investigate rational and irrational numbers. The gup the strips of rectangles so they are the same length. Start with the yel strips. Change the lengths until they are exactly the same. You can drag you check.	llow and red
7.	When they are the same length, how many rectangles are in the yellow's In the red strip? What is the ratio of these two numbers? does this make sense?	
8.	Now, try to make the yellow and blue strips the same length. Can it be a What is different about the number that measures the blue strip?	
9.	Change the values of the rational and irrational numbers (you can use so examples from your Venn diagram), and then repeat Steps 6-8.	me of the
10.	Write down in your own words what is the difference between rational a numbers:	nd irrational