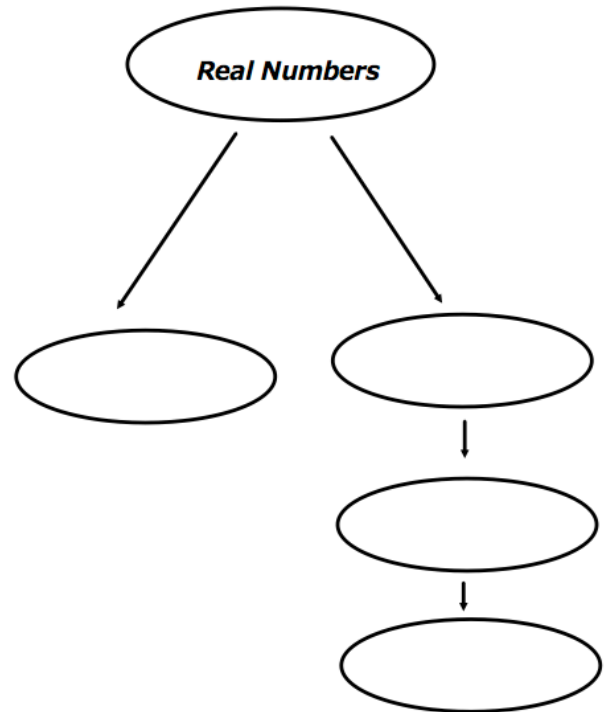
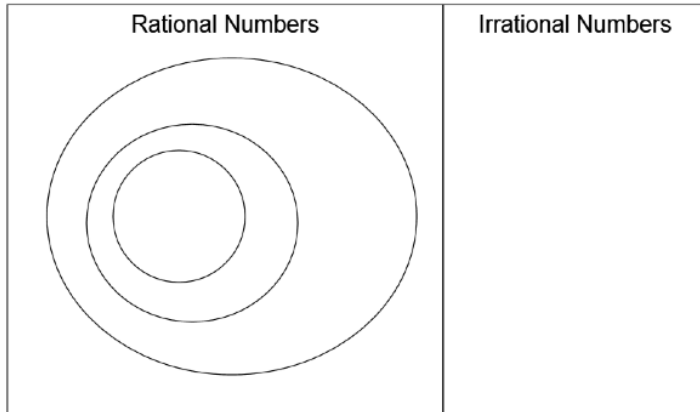


Exploring Numbers Homework

1. Choose any one of the graphic organizers below. Copy it into your notebook, and complete it by filling in the words *rational, irrational, whole, natural, and/or integer* where appropriate.



2. Name the set(s) to which each real number belongs. (*rational, irrational, integer, whole, natural*)

- | | | | |
|----------|---------|---------------|---------------|
| a. -99 | b. 1.83 | c. $\sqrt{2}$ | d. $\sqrt{9}$ |
| e. π | f. 21 | g. 0 | |

3. Write any number that meets each classification:

- | | |
|-------------------------------------|-----------------------------|
| a. rational, but not a whole number | b. integer, but not natural |
|-------------------------------------|-----------------------------|

4. What types of numbers are best to use for each real world situation? (*rational, irrational, integers, whole*) **Support your answer.** 😊

- | | |
|---|---|
| a. Your shoe size at any point in your life | b. How many followers you have on Instagram |
| c. The cost of your dream vacation | d. The exact circumference of a circular field. |

5. Kyle claims that all natural numbers must be whole numbers. John states that all integers must be whole numbers. Who do you agree with, and why?

