



Name \_\_\_\_\_ Period \_\_\_\_\_ Date \_\_\_\_\_

## Categorizing Numbers in the Subsets of Real Numbers #2

1. Classify the number  $-5$  (circle all that apply): integer rational whole irrational
2. Classify  $-2$  (choose one).
  - a. rational, integer, whole, and natural
  - b. rational, integer, whole
  - c. rational
  - d. irrational
3. Classify  $0$  (choose one).
  - a. rational, integer, whole, and natural
  - b. rational, integer, whole
  - c. rational
  - d. irrational
4. Provide an example of an integer. \_\_\_\_\_
5. Simplify; then classify the final answer of  $-2\left(\frac{6}{3}\right)+7$ .
6. Classify the real number  $1.2345697\dots$ .
  - a. rational
  - b. irrational
  - c. rational and integer
  - d. natural, whole, integer, rational

Complete the statement using *always*, *sometimes*, or *never*. Explain your reasoning.

7. A real number is \_\_\_\_\_? \_\_\_\_\_ a rational number. Reasoning: \_\_\_\_\_  
\_\_\_\_\_
8. A natural number is \_\_\_\_\_? \_\_\_\_\_ an irrational number. Reasoning: \_\_\_\_\_  
\_\_\_\_\_
9. A negative integer is \_\_\_\_\_? \_\_\_\_\_ a rational number. Reasoning: \_\_\_\_\_  
\_\_\_\_\_
10. A whole number is \_\_\_\_\_? \_\_\_\_\_ a rational number. Reasoning: \_\_\_\_\_  
\_\_\_\_\_