Name _____ Date _____ Class _____

Sets of Real Numbers

Practice and Problem Solving: A/B

List all number sets that apply to each number.

1. $-\dfrac{4}{5}$

   _____

2. $\sqrt{15}$

   _____

3. -2

   _____

4. -25

   _____

5. $0.\overline{3}$

   _____

6. $\dfrac{20}{4}$

   _____

Tell whether the given statement is true or false. Explain your choice.

7. All real numbers are rational.

   _____

8. All whole numbers are integers.

   _____

Identify the set of numbers that best describes each situation.
Explain your choice.

9. the amount of money in a bank account

   _____

10. the exact temperature of a glass of water in degrees Celsius

    _____
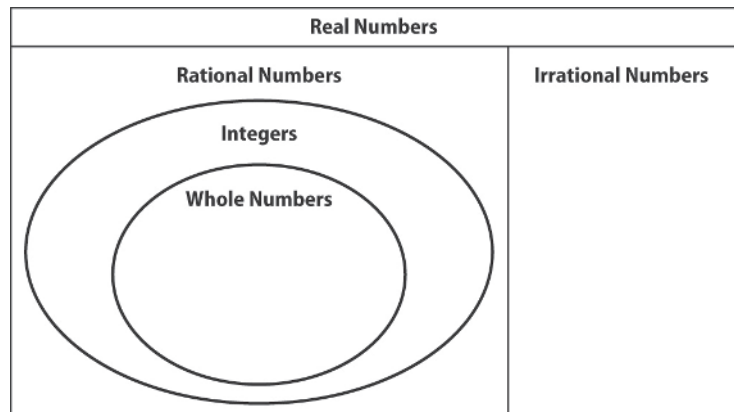
Place each number in the correct location on the Venn diagram.

11. $-\dfrac{5}{9}$

12. $-\sqrt{100}$

13. π

14. $\sqrt{25}$

LESSON 1-2

Sets of Real Numbers

Practice and Problem Solving: C

List all number sets that apply to each number.

1. $-\sqrt{18}$

   _____

2. $-\dfrac{16}{2}$

   _____

3. $0.125185623\ldots$

   _____

4. $\dfrac{\sqrt{25}}{5}$

   _____

5. $\dfrac{18}{19}$

   _____

6. $\dfrac{4}{5} \bullet \dfrac{10}{4}$

   _____

Identify the set of numbers that best describes each situation. Explain your choice.

7. the possible scores in a card game in which points are added or deducted after each hand

   _____

8. elevation of land compared to sea level

   _____

Answer each question.

9. Is it possible to count the number of rational numbers there are between any two integers?

   _____

10. If you take the square root of every whole number from 1 through 100, how many of them will be whole numbers? How many will be irrational numbers?

    _____

11. What numbers are integers but not whole numbers?

    _____

12. What negative numbers are not integers?

    _____