

# Properties of Irrational Numbers

Bell Work

Math 8

**ANSWERS****1. Complete the following statements.**

- a. The decimal forms of square roots of numbers that are not perfect squares never stop and never repeat, so these square roots are **irrational**.
- b. **A repeating decimal** is a decimal in which one digit or a group of digits is repeated without end.
- c. The product of a number and negative one is the **opposite** of the number.

**2. Which of the following statements is correct?**

- a. A rational number is a number that can be written as the ratio of two integers. **T**
- b. An irrational number is a number that can be written as the ratio of two integers. **F**
- c. A repeating decimal can not be written as a fraction. **F**

**Multiple Choices****3. The product of  $\sqrt{5}$  and its reciprocal is:**

- a. **1**
- b. 0
- c. -1
- d. The product is undefined.

**4. The quotient of  $\sqrt{6}$  and  $-\sqrt{6}$  is:**

- a. The quotient is undefined.
- b. 0.
- c. 1
- d. **-1**

**5. The sum of  $\sqrt{7}$  and  $-\sqrt{7}$  is:**

- a. **0**
- b.  $\sqrt{14}$
- c. 1
- d. -1