**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.** | $$-1$$ |  |