**Match the appropriate Property with the correct example.**

**\_\_\_\_\_ 1.** 4 + 5 + 6 = 6 + 4 + 5

**\_\_\_\_\_ 2.** a × (0) = 0

**\_\_\_\_\_ 3.** 2 × (½) = 1

**\_\_\_\_\_ 4.** (a) × (d) = (d) × (a)

**\_\_\_\_\_ 5.** (8 + 2) + 4 = 8 + (2+4)

**\_\_\_\_\_ 6.** 8 × (1) = 8

**\_\_\_\_\_ 7.** 42 – 6a = 6(7-a)

**\_\_\_\_\_ 8.** a + 0 = a

1. **additive identity**
2. **commutative property of addition**
3. **associative property of addition**
4. **multiplicative inverse**
5. **multiplicative identity**
6. **commutative property of multiplication**
7. **distributive property**
8. **associative property of multiplication**
9. **multiplicative property of zero**

**Name the property shown by each statement:**

1. 17 + 22 = 22 + 17 \_\_\_\_\_\_\_\_\_\_\_\_

2. 12 × 46 = 46 × 12 \_\_\_\_\_\_

3. 89 + 0 = 89

4. 89 × 1 = 89

5. 89 × 0 = 0

6. (8 + 4) + 5 = 8 + (4 + 5)

7. (43 × 2) × 5 = 43 × (2 × 5)

**Find the additive inverse of each number.**

**1.** 15 **2.** – 27 **3.**  **4.**  **5.** 0

**Find the multiplicative inverse of each number.**

**1.** 15 **2.** – 27 **3.**  **4.**   **5.** 1

**ANSWERS:**

**Match the appropriate Property with the correct example.**

**\_\_**b **\_\_\_ 1.** 4 + 5 + 6 = 6 + 4 + 5

**\_\_i\_\_\_ 2.** a × (0) = 0

**\_\_d\_\_\_ 3.** 2 × (½) = 1

**\_\_f\_\_\_ 4.** (a) × (d) = (d) × (a)

**\_\_\_c\_\_ 5.** (8 + 2) + 4 = 8 + (2+4)

**\_\_\_e\_\_ 6.** 8 × (1) = 8

**\_\_\_g\_\_ 7.** 42 – 6a = 6(7-a)

**\_\_\_a\_\_ 8.** a + 0 = a

1. **additive identity**
2. **commutative property of addition**
3. **associative property of addition**
4. **multiplicative inverse**
5. **multiplicative identity**
6. **commutative property of multiplication**
7. **distributive property**
8. **associative property of multiplication**
9. **multiplicative property of zero**

**Name the property shown by each statement:**

**1.** 17 + 22 = 22 + 17 commutative property of addition

**2.** 12 × 46 = 46 × 12 commutative property of multiplication

**3.** 89 + 0 = 89 additive identity property

**4.** 89 × 1 = 89 multiplicative identity property

**5.** 89 × 0 = 0 zero property

**6.** (8 + 4) + 5 = 8 + (4 + 5) associative property of addition

**7.** (43 × 2) × 5 = 43 × (2 × 5) associative property of multiplication

**Find the additive inverse of each number.**

**1.** 15  **2.** – 27 **3.**  **4.**  **5.** 0

**1.** -15 **2.** 27 **3.** –  **4.** $\frac{9}{16}$ **5.** 0

**Find the multiplicative inverse of each number.**

**1.** 15 **2.** – 27 **3.**  **4.**  **5.** 1

**1.** $\frac{1}{15}$ **2.** $-\frac{1}{27}$ **3.** $\frac{9}{7}$ **4.** $-\frac{16}{9}$ **5.** 1