

Name: _____

Date: _____



Identity and Zero Properties of Multiplication



Identity Property of Multiplication

When you multiply any number by 1,
the product is that number.

$$a \times 1 = a$$

Example: $7 \times 1 = 7$

Zero Property of Multiplication

When you multiply any number by 0,
the product is 0.

$$a \times 0 = 0$$

Example: $9 \times 0 = 0$

A. Use the Identity Property of Multiplication to find each product.

1. $5 \times 1 =$ _____ 2. $12 \times 1 =$ _____ 3. $27 \times 1 =$ _____ 4. $81 \times 1 =$ _____ 5. $403 \times 1 =$ _____

B. Use the Zero Property of Multiplication to find each product.

1. $0 \times 6 =$ _____ 2. $0 \times 14 =$ _____ 3. $0 \times 28 =$ _____ 4. $93 \times 0 =$ _____ 5. $7,642 \times 0 =$ _____

C. Decide which property (Identity Property or Zero Property) you should use to find each product.
Write the name of the property on the line. Then find the product.

Property: _____ Product: _____

1. $63 \times 1 =$

2. $0 \times 35 =$

3. $172 \times 1 =$

4. $0 \times 509 =$

Property: _____ Product: _____

5. $1 \times 8,218 =$

6. $0 \times 904 =$

7. $1 \times 56 =$

8. $0 \times 12,347 =$

D. Write your own examples for each property. Then solve.

Identity Property of Multiplication

My example: _____

Solve: _____

Zero Property of Multiplication

My example: _____

Solve: _____