

Name: ..... Class: .....

Properties of multiplication

1. Which expression shows the identity property of multiplication?

- $2 \times 9 = 9 \times 2$       $9 \times 1 = 9$       $(9 \times 2) \times 3 = (3 \times 2) \times 9$       $4 \times (5 + 2) = (4 \times 5) + (4 \times 2)$

2. Which expression shows the commulative distribution of multiplication?

- $2 \times 9 = 9 \times 2$       $9 \times 1 = 9$       $(9 \times 2) \times 3 = (3 \times 2) \times 9$       $4 \times (5 + 2) = (4 \times 5) + (4 \times 2)$

3. Which expression shows the associative property of multiplication?

- $2 \times 9 = 9 \times 2$       $9 \times 1 = 9$       $(9 \times 2) \times 3 = (3 \times 2) \times 9$       $4 \times (5 + 2) = (4 \times 5) + (4 \times 2)$

4. Which expression shows the distributive property of multiplication?

- $2 \times 9 = 9 \times 2$       $9 \times 1 = 9$       $(9 \times 2) \times 3 = (3 \times 2) \times 9$       $4 \times (5 + 2) = (4 \times 5) + (4 \times 2)$

Identify the multiplication property used in each question below.

1.  $6 \times 1 = 6$   
the property is \_\_\_\_\_

2.  $a \times (b \times c) = (a \times b) \times c$   
the property is \_\_\_\_\_

3.  $9 \times (3 + 7) = (9 \times 3) + (9 \times 7)$   
the property is \_\_\_\_\_

4.  $-8 = -8 \times 1$   
the property is \_\_\_\_\_

5.  $50 \times 520 = 520 \times 50$   
the property is \_\_\_\_\_



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4. Which expression shows the distributive property of multiplication?

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Identify the multiplication property used in each question below.

1.  $6 \times 1 = 6$ the property is identity2.  $a \times (b \times c) = (a \times b) \times c$ the property is associative3.  $9 \times (3 + 7) = (9 \times 3) + (9 \times 7)$ the property is distributive4.  $-8 = -8 \times 1$ the property is identity5.  $50 \times 520 = 520 \times 50$ the property is commutative