

## 3.OA.B.5 Identifying Multiplication Properties

3.OA.B.5: Apply properties of operations as strategies to multiply and divide.

Find the product of the following. Identify which property of multiplication you could use.

1.  $0 \times 5 =$  \_\_\_\_\_
2.  $(4 \times 5) \times 2 =$  \_\_\_\_\_
3.  $8 \times 6 =$  \_\_\_\_\_
4.  $1 \times 7 =$  \_\_\_\_\_
5.  $7 \times 4 =$  \_\_\_\_\_
6.  $(9 \times 1) \times 3 =$  \_\_\_\_\_
7.  $6 \times 2 =$  \_\_\_\_\_
8.  $8 \times 0 =$  \_\_\_\_\_

Find the missing factor.

9.  $9 \times \underline{\hspace{2cm}} = 7 \times 9$
10.  $\underline{\hspace{2cm}} \times 3 = 3 \times 4$
11.  $5 \times (6 \times 4) = (\underline{\hspace{2cm}} \times 6) \times 4$
12.  $7 \times (2 \times 8) = (7 \times \underline{\hspace{2cm}}) \times 8$



### 3.OA.B.5 Identifying Multiplication Properties

Answer Key

3.OA.B.5: Apply properties of operations as strategies to multiply and divide.

Find the product of the following. Identify which property of multiplication you could use.

- |    |                           |           |   |
|----|---------------------------|-----------|---|
| 1. | $0 \times 5 =$            | <u>0</u>  | <u>Zero Property of Multiplication</u>        |
| 2. | $(4 \times 5) \times 2 =$ | <u>40</u> | <u>Associative Property of Multiplication</u> |
| 3. | $8 \times 6 =$            | <u>48</u> | <u>Commutative Property of Multiplication</u> |
| 4. | $1 \times 7 =$            | <u>7</u>  | <u>Commutative Property of Multiplication</u> |
| 5. | $7 \times 4 =$            | <u>28</u> | <u>Commutative Property of Multiplication</u> |
| 6. | $(9 \times 1) \times 3 =$ | <u>27</u> | <u>Associative Property of Multiplication</u> |
| 7. | $6 \times 2 =$            | <u>12</u> | <u>Commutative Property of Multiplication</u> |
| 8. | $8 \times 0 =$            | <u>0</u>  | <u>Zero Property of Multiplication</u>        |

Find the missing factor.

9.  $9 \times \underline{7} = 7 \times 9$
10.  $\underline{4} \times 3 = 3 \times 4$
11.  $5 \times (6 \times 4) = (\underline{5} \times 6) \times 4$
12.  $7 \times (2 \times 8) = (7 \times \underline{2}) \times 8$

