

# Math Practice Sheets

Multiplying Whole Numbers Part I

Student Name

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Examples

Practice Questions

Extra Challenge Unit

Unit  
4.1

# Multiplication Properties

## Example

### Commutative Property

The product of two factors remains same when the orders of the factors are changed.

$$3 \times 7 = 7 \times 3 = 21 \quad 9 \times 11 = 11 \times 9 = 99$$

### Associative Property

The product remains same when the grouping of the factors changed.

$$(4 \times 3) \times 6 = 4 \times (3 \times 6) = 72$$

### Identity Property

The product of a number and the digit 1 is always the same number.

$$1 \times 6 = 6 = 6 \times 1$$

### Zero Property

The product of a number and zero (0) is always zero.

$$22 \times 0 = 0 \quad 0 \times 133 = 0$$

## Exercise

1. Identify and write the property that is being used in each of the following equalities.

a)  $34 \times 0 = 0$

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b)  $27 \times 2 = 2 \times 27$

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c)  $4 \times (5 \times 6) = (4 \times 5) \times 6$

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d)  $1 \times 123 = 123$

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e)  $(2 \times 7) \times 3 = 2 \times (7 \times 3)$

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f)  $9 \times 23 = 23 \times 9$

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g)  $2,334 \times 1 = 2,334$

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h)  $9 \times (7 \times 10) = (9 \times 7) \times 10$

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i)  $443 \times 0 = 0$

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j)  $11 \times 12 = 12 \times 11$

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k)  $506 \times 1 = 506$

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l)  $91 \times 30 = 30 \times 91$

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m)  $0 \times 999 = 0$

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n)  $246 \times 8 = 8 \times 246$

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o)  $9 \times (3 \times 0) = (3 \times 9) \times 0$

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