

## Multiplication Worksheets For 5th Graders Answer Key PDF

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### Part 1: Building a Foundation

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**What is the product of 7 and 8?**

undefined. A) 54

**undefined. B) 56 ✓**

undefined. C) 64

undefined. D) 58

The product of 7 and 8 is 56.

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The product of 7 and 8 is 56.

**Which of the following are properties of multiplication? (Select all that apply)**

**undefined. A) Commutative Property ✓**

**undefined. B) Associative Property ✓**

**undefined. C) Distributive Property ✓**

undefined. D) Additive Property

The properties of multiplication include Commutative, Associative, and Distributive properties.

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undefined. **A) Distributive Property ✓**

undefined. A) Additive Property

The properties of multiplication include the Commutative, Associative, and Distributive properties.

**Explain in your own words what the commutative property of multiplication means.**

**The commutative property means that changing the order of the numbers does not change the product.**

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**The commutative property states that changing the order of the factors does not change the product.**

**Which multiplication fact is correct?**

undefined. A)  $9 \times 5 = 44$

undefined. **B)  $8 \times 7 = 56$  ✓**

undefined. C)  $6 \times 6 = 35$

undefined. D)  $7 \times 4 = 32$

The correct multiplication fact is  $8 \times 7 = 56$ .

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undefined. **A)  $8 \times 7 = 56$  ✓**

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undefined. A)  $7 \times 4 = 32$

The correct multiplication fact is  $8 \times 7 = 56$ .

## Part 2: Understanding and Interpretation

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**Which visual model can be used to represent  $3 \times 4$ ?**

undefined. A) A line graph

**undefined. B) An array with 3 rows and 4 columns ✓**

undefined. C) A pie chart

undefined. D) A histogram

An array with 3 rows and 4 columns can represent  $3 \times 4$ .

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An array with 3 rows and 4 columns can represent  $3 \times 4$ .

**Which statements are true about the relationship between multiplication and division? (Select all that apply)**

**undefined. A) Multiplication is repeated addition. ✓**

**undefined. B) Division is the inverse of multiplication. ✓**

undefined. C) Multiplication always results in a larger number.

**undefined. D) Division can be used to check multiplication results. ✓**

True statements include that multiplication is repeated addition and division is the inverse of multiplication.

**Which statements are true about the relationship between multiplication and division? (Select all that apply)**

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Multiplication is repeated addition, and division is the inverse of multiplication.

**Describe how you would use an area model to solve  $5 \times 12$ .**

An area model can be used by creating a rectangle with dimensions 5 and 12, and calculating the area.

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An area model can be used by creating a rectangle with dimensions 5 and 12.

### Part 3: Application and Analysis

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If a rectangle has a length of 8 units and a width of 3 units, what is its area?

undefined. A) 11 square units

**undefined. B) 24 square units ✓**

undefined. C) 18 square units

undefined. D) 30 square units

The area of the rectangle is 24 square units.

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**undefined. A) 24 square units ✓**

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The area of the rectangle is 24 square units.

Which of the following scenarios involve multiplication? (Select all that apply)

**undefined. A) Calculating the total cost of 5 apples if each costs \$2. ✓**

undefined. B) Dividing a pizza into 8 slices.

**undefined. C) Determining the total number of wheels on 6 cars. ✓**

undefined. D) Finding the average of 4 test scores.

Scenarios that involve multiplication include calculating total cost and determining total wheels.

**Which of the following scenarios involve multiplication? (Select all that apply)**

**undefined. A) Calculating the total cost of 5 apples if each costs \$2. ✓**

undefined. A) Dividing a pizza into 8 slices.

**undefined. A) Determining the total number of wheels on 6 cars. ✓**

undefined. A) Finding the average of 4 test scores.

Calculating total cost and total wheels are scenarios that involve multiplication.

**A school is organizing a field trip. If each bus can hold 40 students and there are 5 buses, how many students can go on the trip? Show your work.**

**You can multiply 40 by 5 to find that 200 students can go on the trip.**

**A school is organizing a field trip. If each bus can hold 40 students and there are 5 buses, how many students can go on the trip? Show your work.**

**The total number of students that can go is 200.**

## Part 4: Evaluation and Creation

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**Which expression represents the distributive property of  $6 \times (4 + 3)$ ?**

**undefined. A)  $6 \times 4 + 6 \times 3$  ✓**

undefined. B)  $6 + 4 \times 3$

undefined. C)  $6 \times 4 \times 3$

undefined. D)  $6 + 4 + 3$

The expression that represents the distributive property is  $6 \times 4 + 6 \times 3$ .

**Which expression represents the distributive property of  $6 \times (4 + 3)$ ?**

**undefined. A)  $6 \times 4 + 6 \times 3$  ✓**

undefined. A)  $6 + 4 \times 3$

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undefined. A)  $6 + 4 + 3$

The expression is  $6 \times 4 + 6 \times 3$ .

Analyze the following statements and identify which are correct about solving multiplication problems. (Select all that apply)

undefined. A) Estimation can help verify the reasonableness of a product. ✓

undefined. B) Using arrays can simplify complex multiplication. ✓

undefined. C) Multiplication does not require understanding of addition.

undefined. D) Breaking down numbers into smaller parts can make multiplication easier. ✓

Correct statements include that estimation can help verify products and breaking down numbers can simplify multiplication.

Analyze the following statements and identify which are correct about solving multiplication problems. (Select all that apply)

undefined. A) Estimation can help verify the reasonableness of a product. ✓

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undefined. A) Multiplication does not require understanding of addition.

undefined. A) Breaking down numbers into smaller parts can make multiplication easier. ✓

Estimation, using arrays, and breaking down numbers are correct strategies.

Analyze how the multiplication of two numbers changes when one of the numbers is doubled. Provide an example to support your explanation.

When one number is doubled, the product also doubles. For example, doubling 4 in  $4 \times 5$  results in  $8 \times 5$ , which equals 40.

Analyze how the multiplication of two numbers changes when one of the numbers is doubled. Provide an example to support your explanation.

Doubling one number will double the product; for example,  $4 \times 5$  becomes  $8 \times 5$ .

Which of the following best evaluates the effectiveness of using multiplication in real-life scenarios?

undefined. A) It is only useful in academic settings.

undefined. B) It helps in quick calculations and problem-solving. ✓

undefined. C) It is rarely applicable outside of school.

undefined. D) It complicates simple tasks.

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**Which of the following best evaluates the effectiveness of using multiplication in real-life scenarios?**

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**undefined. A) It helps in quick calculations and problem-solving. ✓**

undefined. A) It is rarely applicable outside of school.

undefined. A) It complicates simple tasks.

Multiplication helps in quick calculations and problem-solving.

**Imagine you are designing a garden. Which multiplication concepts would you use to plan the layout? (Select all that apply)**

**undefined. A) Calculating the area for planting. ✓**

**undefined. B) Determining the number of plants per row. ✓**

**undefined. C) Estimating the total cost of seeds. ✓**

undefined. D) Measuring the perimeter of the garden.

You would use multiplication to calculate area, determine the number of plants per row, and estimate costs.

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undefined. A) Measuring the perimeter of the garden.

Calculating area, number of plants per row, and total cost are relevant concepts.

**Create a word problem involving multiplication that includes a real-world scenario. Provide a solution to your problem.**

**Create a problem such as calculating total cost or total items.**

**Create a word problem involving multiplication that includes a real-world scenario. Provide a solution to your problem.**

**An example could be: If a box contains 12 chocolates and you have 4 boxes, how many chocolates do you have in total? The solution is 48 chocolates.**