Multiplication And Division Worksheets Answer Key PDF

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Part 1: Building a Foundation

What is the product of 7 and 8?

undefined. 54

undefined. 56 ✓

undefined. 64

undefined. 72

The product of 7 and 8 is 56.

What is the product of 7 and 8?

undefined. A) 54

undefined. B) 56 ✓

undefined. C) 64

undefined. D) 72

The product of 7 and 8 is 56.

What is the product of 7 and 8?

undefined. A) 54

undefined. B) 56 ✓

undefined. C) 64

undefined. D) 72

The product of 7 and 8 is 56.

Which of the following are properties of multiplication?

undefined. A) Commutative ✓
undefined. A) Associative ✓
undefined. A) Distributative ✓
undefined. A) Subtractive

The properties of multiplication include commutative, associative, and distributative.

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The properties include commutative, associative, and distributative.

Explain the relationship between multiplication and division in your own words.

Multiplication and division are inverse operations; multiplication combines groups while division separates them.

Explain the relationship between multiplication and division in your own words.

Multiplication and division are inverse operations.

Explain the relationship between multiplication and division in your own words.

Multiplication and division are inverse operations.

What is the multiplicative identity?

undefined. 0
undefined. 1 ✓
undefined. -1
undefined. 10

The multiplicative identity is 1, as any number multiplied by 1 remains unchanged.

What is the multiplicative identity?

undefined. A) 0
undefined. B) 1 ✓
undefined. C) -1
undefined. D) 10

The multiplicative identity is 1.

What is the multiplicative identity?

undefined. A) 0
undefined. B) 1 ✓
undefined. C) -1
undefined. D) 10

The multiplicative identity is 1.

Part 2: comprehension and Application

If 9 × 5 = 45, what is 45 ÷ 9?

undefined. 3
undefined. 5 ✓
undefined. 9
undefined. 45

45 ÷ 9 equals 5, as it is the inverse of the multiplication.

If 9 × 5 = 45, what is 45 ÷ 9?

undefined. A) 3
undefined. B) 5 ✓
undefined. C) 9
undefined. D) 45

45 ÷ 9 equals 5.

If 9 × 5 = 45, what is 45 ÷ 9?

undefined. A) 3
undefined. B) 5 ✓
undefined. C) 9
undefined. D) 45

45 ÷ 9 equals 5.

Which of the following statements are true about division?

undefined. A) Division is the inverse of multiplication. ✓
undefined. A) Division by zero is undefined. ✓
undefined. A) Division is commutative.
undefined. A) Division can be checked by multiplication. ✓

True statements include that division is the inverse of multiplication and division by zero is undefined.

Which of the following statements are true about division?

undefined. A) Division is the inverse of multiplication. ✓
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True statements include that division is the inverse of multiplication and division by zero is undefined.

Describe how you would use an array to solve 4 × 6.

An array can be used to visualize 4 rows of 6 items each, helping to understand multiplication.

Describe how you would use an array to solve 4 × 6.

An array can be used to visualize the multiplication of 4 and 6.

Describe how you would use an array to solve 4 × 6.

An array can be used to visualize the multiplication of 4 and 6.

A farmer has 36 apples and wants to pack them equally into 6 baskets. How many apples will each basket contain?

undefined. 4
undefined. 5
undefined. 6 ✓
undefined. 7

Each basket will contain 6 apples, as 36 divided by 6 equals 6.

A farmer has 36 apples and wants to pack them equally into 6 baskets. How many apples will each basket contain?

undefined. A) 4
undefined. B) 6 ✓
undefined. C) 5
undefined. D) 7

Each basket will contain 6 apples.

A farmer has 36 apples and wants to pack them equally into 6 baskets. How many apples will each basket contain?

undefined. A) 4

undefined. B) 6 ✓

undefined. C) 5

undefined. D) 7

Each basket will contain 6 apples.

Which of the following scenarios involve multiplication?

undefined. A) Calculating the total cost of 5 items each priced at $3. ✓

undefined. A) Splitting a bill equally among 4 friends.

undefined. A) Determining the area of a rectangle with sides 4 cm and 5 cm. ✓

undefined. A) Finding the average of 5 test scores.

Scenarios that involve multiplication include calculating total costs and determining area.

Which of the following scenarios involve multiplication?

undefined. A) Calculating the total cost of 5 items each priced at $3. ✓

undefined. B) Splitting a bill equally among 4 friends.

undefined. C) Determining the area of a rectangle with sides 4 cm and 5 cm. ✓

undefined. D) Finding the average of 5 test scores.

Scenarios A, C involve multiplication.

Which of the following scenarios involve multiplication?

undefined. A) Calculating the total cost of 5 items each priced at $3. ✓

undefined. B) Splitting a bill equally among 4 friends.

undefined. C) Determining the area of a rectangle with sides 4 cm and 5 cm. ✓

undefined. D) Finding the average of 5 test scores.

Scenarios A, C involve multiplication.

Solve the word problem: If a car travels 60 miles per hour, how far will it travel in 3 hours?

The car will travel 180 miles, as 60 miles/hour multiplied by 3 hours equals 180 miles.

Solve the word problem: If a car travels 60 miles per hour, how far will it travel in 3 hours?

The car will travel 180 miles.

Solve the word problem: If a car travels 60 miles per hour, how far will it travel in 3 hours?

The car will travel 180 miles.

Part 3: Analysis, Evaluation, and Creation

Which equation represents the distributative property?

undefined. $3 \times (4 + 5) = 3 \times 4 + 3 \times 5$ ✓
undefined. $3 + 4 = 4 + 3$
undefined. $(3 \times 4) \times 5 = 3 \times (4 \times 5)$
undefined. $3 \times 1 = 3$

The equation $3 \times (4 + 5) = 3 \times 4 + 3 \times 5$ represents the distributative property.

Which equation represents the distributative property?

undefined. A) $3 \times (4 + 5) = 3 \times 4 + 3 \times 5$ ✓
undefined. B) $3 + 4 = 4 + 3$
undefined. C) $(3 \times 4) \times 5 = 3 \times (4 \times 5)$
undefined. D) $3 \times 1 = 3$

The correct equation is $3 \times (4 + 5) = 3 \times 4 + 3 \times 5$.

Which equation represents the distributative property?

undefined. A) $3 \times (4 + 5) = 3 \times 4 + 3 \times 5$ ✓
undefined. B) $3 + 4 = 4 + 3$
undefined. C) $(3 \times 4) \times 5 = 3 \times (4 \times 5)$
undefined. D) $3 \times 1 = 3$

The correct equation is $3 \times (4 + 5) = 3 \times 4 + 3 \times 5$.

Analyze the following statements and identify which are correct:

undefined. A) Multiplication is always commutative. ✓

undefined. A) Division is always associative.

undefined. A) The result of multiplying two negative numbers is positive. ✓

undefined. A) The result of dividing a number by itself is always 1. ✓

Correct statements include that multiplication is commutative and the result of multiplying two negative numbers is positive.

Analyze the following statements and identify which are correct:

undefined. A) Multiplication is always commutative. ✓

undefined. B) Division is always associative.

undefined. C) The result of multiplying two negative numbers is positive. ✓

undefined. D) The result of dividing a number by itself is always 1. ✓

Correct statements include A, C, and D.

Analyze the following statements and identify which are correct:

undefined. A) Multiplication is always commutative. ✓

undefined. B) Division is always associative.

undefined. C) The result of multiplying two negative numbers is positive. ✓

undefined. D) The result of dividing a number by itself is always 1. ✓

Correct statements include A, C, and D.

Explain why the equation 8 ÷ 0 is undefined.

The equation 8 ÷ 0 is undefined because division by zero does not yield a valid result.

Explain why the equation 8 ÷ 0 is undefined.

Dividing by zero is undefined because it does not produce a valid result.

Explain why the equation 8 ÷ 0 is undefined.

Dividing by zero is undefined because it does not produce a valid result.

Which of the following best evaluates the expression 2 × (3 + 4) ÷ 2?

undefined. 3.5
undefined. 7 ✓
undefined. 14
undefined. 10

The expression evaluates to 7 when following the order of operations.

Which of the following best evaluates the expression 2 × (3 + 4) ÷ 2?

undefined. A) 3.5
undefined. B) 7 ✓
undefined. C) 14
undefined. D) 10

The expression evaluates to 7.

Which of the following best evaluates the expression 2 × (3 + 4) ÷ 2?

undefined. A) 3.5
undefined. B) 7 ✓
undefined. C) 14
undefined. D) 10

The correct evaluation is 7.

Evaluate the following strategies for solving 12 × 15 efficiently:

undefined. A) Use the distributative property: 12 × (10 + 5) ✓
undefined. A) Multiply directly: 12 × 15 ✓
undefined. A) Break into smaller parts: (10 × 15) + (2 × 15) ✓
undefined. A) Use a calculator ✓

Using the distributative property or breaking into smaller parts are efficient strategies for solving 12 × 15.

Evaluate the following strategies for solving 12 × 15 efficiently:

undefined. A) Use the distributative property: 12 × (10 + 5) ✓
undefined. B) Multiply directly: 12 × 15 ✓
undefined. C) Break into smaller parts: (10 × 15) + (2 × 15) ✓
undefined. D) Use a calculator ✓

All strategies are valid for solving 12 × 15.

Evaluate the following strategies for solving 12 × 15 efficiently:

undefined. A) Use the distributative property: 12 × (10 + 5) ✓
undefined. B) Multiply directly: 12 × 15 ✓
undefined. C) Break into smaller parts: (10 × 15) + (2 × 15) ✓
undefined. D) Use a calculator ✓

Strategies A, C, and D are efficient methods.

Create a real-world problem that involves both multiplication and division, and solve it.

An example could be calculating the total cost of items and then dividing by the number of people sharing the cost.

Create a real-world problem that involves both multiplication and division, and solve it.

A real-world problem could involve calculating total costs and splitting them.

Create a real-world problem that involves both multiplication and division, and solve it.

The problem should involve a situation where both operations are necessary.