

Math Worksheets Multiplication And Division Answer Key PDF

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Part 1: Building a Foundation

What is the product of 7 and 8?

undefined. A) 54

undefined. B) 56 ✓

undefined. C) 58

undefined. D) 60

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** ✓

undefined. **B) Associative** ✓

undefined. **C) Distributive** ✓

undefined. D) Subtractive

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

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Explain the relationship between multiplication and division using an example.

Multiplication and division are inverse operations; for example, if $4 \times 5 = 20$, then $20 \div 5 = 4$.

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Define the following terms:

1. Dividend:

The number being divided.

2. Divisor:

The number by which the dividend is divided.

3. Quotient:

The result of division.

4. Remainder:

The amount left over after division.

Definitions should be accurate and reflect the mathematical concepts.

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Definitions should include clear and concise explanations.

What is 36 divided by 6?

undefined. A) 5

undefined. B) 6 ✓

undefined. C) 7

undefined. D) 8

36 divided by 6 equals 6.

What is 36 divided by 6?

undefined. A) 5

undefined. B) 6 ✓

undefined. C) 7

undefined. D) 8

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undefined. C) 7

undefined. D) 8

36 divided by 6 equals 6.

Part 2: Understanding and Interpretation

If $5 \times 4 = 20$, which of the following is true?

undefined. A) $20 \div 5 = 3$

undefined. B) $20 \div 4 = 5$ ✓

undefined. C) $20 \div 5 = 6$

undefined. D) $20 \div 4 = 6$

$20 \div 4 = 5$ is true.

If $5 \times 4 = 20$, which of the following is true?

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$20 \div 4 = 5$ is true.

Which statements correctly describe division? (Select all that apply)

undefined. A) Division is the inverse of multiplication. ✓

undefined. B) Division can result in a remainder. ✓

undefined. C) Division is always commutative.

undefined. D) Division can be represented as repeated subtraction. ✓

Division is the inverse of multiplication, can result in a remainder, and can be represented as repeated subtraction.

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Division is the inverse of multiplication and can result in a remainder.

Describe how you would use the distributive property to simplify the multiplication of 8×27 .

You can break down 27 into 20 and 7, then use the distributive property: $8 \times (20 + 7) = (8 \times 20) + (8 \times 7)$.

Describe how you would use the distributive property to simplify the multiplication of 8×27 .

You can use the distributive property by breaking 27 into 20 and 7, then calculating $8 \times 20 + 8 \times 7$.

Describe how you would use the distributive property to simplify the multiplication of 8×27 .

You can break down 27 into 20 and 7, then use the distributive property.

Part 3: Application and Analysis

If a rectangle has a length of 9 units and a width of 4 units, what is its area?

undefined. A) 13 square units

undefined. B) 36 square units ✓

undefined. C) 27 square units

undefined. D) 45 square units

The area of the rectangle is 36 square units.

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The area is 36 square units.

Which of the following problems can be solved using multiplication? (Select all that apply)

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

undefined. B) Determining how many groups of 4 can be made from 20 items. ✓

undefined. C) Calculating the perimeter of a square with side length 5. ✓

undefined. D) Splitting 18 candies equally among 3 children.

Finding total cost, determining groups, and calculating perimeter can all involve multiplication.

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undefined. C) Calculating the perimeter of a square with side length 5. ✓

undefined. D) Splitting 18 candies equally among 3 children.

Finding total costs and groups can be solved using multiplication.

Solve the following word problem: A baker uses 3 cups of flour for each batch of cookies. How many cups of flour are needed for 7 batches?

You need 21 cups of flour for 7 batches (3 cups x 7).

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You need 21 cups of flour for 7 batches.

Which of the following equations demonstrates the associative property of multiplication?

undefined. A) $(2 \times 3) \times 4 = 2 \times (3 \times 4)$ ✓

undefined. B) $2 + 3 = 3 + 2$

undefined. C) $4 \times 0 = 0$

undefined. D) $5 \times 1 = 5$

The equation $(2 \times 3) \times 4 = 2 \times (3 \times 4)$ demonstrates the associative property.

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The equation $(2 \times 3) \times 4 = 2 \times (3 \times 4)$ demonstrates the associative property.

Analyze the following statements and identify which are true about division. (Select all that apply)

undefined. **A) Division by zero is undefined. ✓**

undefined. B) The quotient is always smaller than the dividend.

undefined. **C) The remainder is always less than the divisor. ✓**

undefined. D) Division is distributive over addition.

Division by zero is undefined, the remainder is always less than the divisor, and the quotient is not always smaller than the dividend.

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undefined. B) The quotient is always smaller than the dividend.

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Division by zero is undefined, the quotient is not always smaller than the dividend, and the remainder is always less than the divisor.

Analyze the following statements and identify which are true about division. (Select all that apply)

undefined. **A) Division by zero is undefined. ✓**

undefined. B) The quotient is always smaller than the dividend.

undefined. **C) The remainder is always less than the divisor. ✓**

undefined. D) Division is distributive over addition.

Division by zero is undefined, and the remainder is always less than the divisor.

Analyze the following scenario: A group of 24 students is divided into teams. If each team has 6 students, how many teams are formed? Explain your reasoning.

There are 4 teams formed ($24 \div 6 = 4$).

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There are 4 teams formed, as $24 \div 6 = 4$.

Part 4: Evaluation and Creation

Which of the following strategies is most efficient for multiplying 12×15 ?

undefined. A) Direct multiplication

undefined. B) Breaking down into $(10 + 2) \times 15$ ✓

undefined. C) Using a calculator

undefined. D) Repeated addition

Breaking down into $(10 + 2) \times 15$ is the most efficient strategy.

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Breaking down into $(10 + 2) \times 15$ is often the most efficient strategy.

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Breaking down into $(10 + 2) \times 15$ is often the most efficient.

Evaluate the following methods for solving $48 \div 6$ and select those that are correct. (Select all that apply)

undefined. A) Long division ✓

undefined. B) Repeated subtraction ✓

undefined. C) Multiplying 6 by a number to get 48 ✓

undefined. D) Using a calculator

Long division, repeated subtraction, and multiplying 6 by a number to get 48 are all correct methods.

Evaluate the following methods for solving $48 \div 6$ and select those that are correct. (Select all that apply)

undefined. A) Long division ✓

undefined. B) Repeated subtraction ✓

undefined. C) Multiplying 6 by a number to get 48 ✓

undefined. D) Using a calculator

Long division, repeated subtraction, and multiplying 6 by a number to get 48 are all valid methods.

Evaluate the following methods for solving $48 \div 6$ and select those that are correct. (Select all that apply)

undefined. A) Long division ✓

undefined. B) Repeated subtraction ✓

undefined. C) Multiplying 6 by a number to get 48 ✓

undefined. D) Using a calculator

Long division, repeated subtraction, and multiplying 6 by a number to get 48 are all valid methods.

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

An example could be: If a box contains 12 cookies and you have 3 boxes, how many cookies do you have in total? ($12 \times 3 = 36$). If you share them equally among 6 friends, how many does each friend get? ($36 \div 6 = 6$).

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

An example could be: If a box contains 12 cookies and you have 3 boxes, how many cookies do you have in total? ($12 \times 3 = 36$).

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.