Multiplication 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. 58
undefined. 60

The product of 7 and 8 is 56.

Which of the following are properties of multiplication?

undefined. Associative Property ✓
undefined. Distributative Property ✓
undefined. Communtative Property ✓
undefined. Subtractive Property

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

Explain the Zero Property of multiplication and provide an example.

The Zero Property states that any number multiplied by zero equals zero. For example, 5 × 0 = 0.

List the terms used in a division operation.

1. Term 1:
Dividend

2. Term 2:
Divisor

3. Term 3:

Quotient

4. Term 4:

Remainder

The terms used in a division operation are dividend, divisor, quotient, and remainder.

What is the result of dividing any number by 1?

undefined. 0

undefined. The number itself ✓

undefined. 1

undefined. Undefined

Dividing any number by 1 results in the number itself.

Part 2: Understanding and Application

If 9 × 5 = 45, what is 45 ÷ 9?

undefined. 4

undefined. 5 ✓

undefined. 6

undefined. 9

45 ÷ 9 equals 5.

Which of the following statements are true about division?

undefined. Division is the inverse of multiplication. ✓

undefined. Division by zero is undefined. ✓

undefined. Division always results in a whole number.

undefined. Division can be used to find equal groups. ✓

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

Describe how you can use multiplication to check the result of a division problem.

You can multiply the quotient by the divisor to check if it equals the dividend.

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

undefined. 11 square units
undefined. 24 square units ✓
undefined. 16 square units
undefined. 32 square units

The area of the rectangle is 24 square units.

You have 36 apples and want to divide them equally into baskets. Which of the following are possible numbers of apples per basket?

undefined. 3 ✓
undefined. 4 ✓
undefined. 5
undefined. 6 ✓

Possible numbers of apples per basket include 3, 4, and 6.

A group of 5 friends wants to share 20 candies equally. How many candies does each friend get? Show your calculation.

Each friend gets 4 candies, calculated by 20 ÷ 5 = 4.

Part 3: Analysis, Evaluation, and Creation

Which of the following expressions demonstrates the Distributative Property?

undefined. $4 \times (2 + 3) = (4 \times 2) + (4 \times 3)$ ✓
undefined. $4 + 2 = 2 + 4$
undefined. $(4 \times 2) \times 3 = 4 \times (2 \times 3)$
undefined. $4 \times 0 = 0$

The expression 4 × (2 + 3) = (4 × 2) + (4 × 3) demonstrates the Distributative Property.

Analyze the following division problems and identify which have a remainder:

undefined. 15 ÷ 4 ✓
undefined. 20 ÷ 5
undefined. 23 ÷ 6 ✓
undefined. 18 ÷ 3

The division problems 15 ÷ 4 and 23 ÷ 6 have a remainder.

Explain how the Commutative Property of multiplication can simplify calculations in a real-world scenario.

The Commutative Property allows you to rearrange factors to make calculations easier, such as multiplying 2 × 3 or 3 × 2.

Which strategy would be most effective for estimating the product of 47 and 6?

undefined. Round both numbers to the nearest ten and multiply. ✓
undefined. Use a calculator.
undefined. Add 47 six times.
undefined. Divide 47 by 6 and multiply by 36.

Rounding both numbers to the nearest ten and multiplying is the most effective strategy for estimation.

Evaluate the following scenarios and determine which demonstrate effective use of division:

undefined. Splitting a bill evenly among friends. ✓
undefined. Determining the number of weeks in a year.
undefined. Calculating the area of a square.
undefined. Allocating resources equally in a project. ✓

Effective uses of division include splitting a bill evenly among friends and allocating resources equally in a project.

Create a real-world problem that involves both multiplication and division, and 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? (12 × 4 = 48). If you share them equally among 6 friends, each gets 8 chocolates (48 ÷ 6 = 8).

Propose two different methods to solve the multiplication problem 12 × 15.

1. Method 1:

Standard algorithm (12 × 15 = 180)

2. Method 2:

Break down (12 × 10 + 12 × 5 = 120 + 60 = 180)

One method is to use the standard algorithm, and another is to break it down into smaller parts (12 × 10 + 12 × 5).