

Multiply By 4 Worksheet Answer Key PDF

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Part 1: Building a Foundation

What is the product of 4×5 ?

undefined. A) 9

undefined. B) 20 ✓

undefined. C) 15

undefined. D) 25

The product of 4×5 is 20.

Which of the following are correct products of multiplying by 4?

undefined. A) $4 \times 3 = 12$ ✓

undefined. B) $4 \times 6 = 28$

undefined. C) $4 \times 2 = 8$ ✓

undefined. D) $4 \times 7 = 28$

The correct products are $4 \times 3 = 12$ and $4 \times 2 = 8$.

Explain in your own words what it means to multiply a number by 4.

Multiplying a number by 4 means adding that number to itself four times.

List the products of 4 multiplied by 1, 2, and 3.

1. 4×1

4

2. 4×2

8

3. 4×3

12

The products are 4, 8, and 12.

Part 2: Comprehension and Interpretation

Which property of multiplication is demonstrated by the equation $4 \times 3 = 3 \times 4$?

undefined. A) Associative Property

undefined. B) Distributive Property

undefined. C) Commutative Property ✓

undefined. D) Identity Property

This demonstrates the Commutative Property of multiplication.

Identify the correct applications of the distributive property involving multiplication by 4.

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

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

undefined. C) $4 \times (3 + 4) = (4 \times 3) + (4 \times 4)$

undefined. D) $4 \times (6 + 2) = (4 \times 6) + (4 \times 2)$

The correct applications are A and B.

Describe how you can use an array to visually represent 4×3 .

An array can be represented as 4 rows of 3 objects each.

Part 3: Application and Analysis

If a car travels 4 miles every hour, how many miles will it travel in 6 hours?

undefined. A) 20 miles

undefined. B) 24 miles ✓

undefined. C) 18 miles

undefined. D) 28 miles

The car will travel 24 miles in 6 hours.

Which of the following scenarios correctly apply the concept of multiplying by 4?

undefined. A) Calculating the total number of legs on 4 dogs. ✓

undefined. B) Determining the number of wheels on 4 bicycles. ✓

undefined. C) Finding the total number of apples in 4 baskets, each containing 3 apples.

undefined. D) Counting the number of days in 4 weeks. ✓

The correct scenarios are A, B, and D.

A farmer has 4 fields, each with 5 rows of crops. How many rows of crops are there in total? Show your calculation.

The total number of rows is 20, calculated as 4×5 .

Which equation correctly shows the breakdown of 4×9 using the distributive property?

undefined. A) $4 \times 9 = (4 \times 5) + (4 \times 4)$ ✓

undefined. B) $4 \times 9 = (4 \times 3) + (4 \times 6)$

undefined. C) $4 \times 9 = (4 \times 8) + (4 \times 1)$

undefined. D) $4 \times 9 = (4 \times 7) + (4 \times 2)$

The correct equation is $4 \times 9 = (4 \times 5) + (4 \times 4)$.

Part 4: Evaluation and Creation

Evaluate the following methods and select those that correctly simplify the calculation of 4×15 .

undefined. A) $4 \times (10 + 5)$ ✓

undefined. B) $4 \times (7 + 8)$

undefined. C) $4 \times (12 + 3)$ ✓

undefined. D) $4 \times (9 + 6)$

The correct methods are A and C.

Create a real-world problem that involves multiplying by 4, and solve it. Explain your reasoning and steps.

Students should create a problem and provide a logical solution.