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Multiply By 4 Worksheet Questions and Answers PDF

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Part 1: Building a Foundation

What is the product of 4 × 5?

Hint: Think about the multiplication table for 4.

○ A) 9
○ **B) 20** ✓
○ C) 15
○ D) 25

⎸ The product of 4 × 5 is 20.

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

Hint: Check each multiplication carefully.

☐ **A) 4 × 3 = 12** ✓
☐ B) 4 × 6 = 28
☐ **C) 4 × 2 = 8** ✓
☐ D) 4 × 7 = 28

⎸ The correct products are 4 × 3 = 12 and 4 × 2 = 8.

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

Hint: Think about repeated addition.

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

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

Hint: Calculate each product separately.

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 × 3 = 3 × 4?

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Hint: Think about how the order of numbers affects the product.

○ A) Associative Property
○ B) Distributative Property
○ **C) Commutative Property** ✓
○ D) Identity Property

┃ This demonstrates the Commutative Property of multiplication.

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

Hint: Look for equations that break down multiplication into parts.

☐ **A) 4 × (2 + 3) = (4 × 2) + (4 × 3)** ✓
☐ **B) 4 × (5 + 1) = (4 × 5) + (4 × 1)** ✓
☐ C) 4 × (3 + 4) = (4 × 3) + (4 × 4)
☐ D) 4 × (6 + 2) = (4 × 6) + (4 × 2)

┃ The correct applications are A and B.

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

Hint: Think about how to arrange objects in rows and columns.

┃ **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?

Hint: Multiply the distance traveled in one hour by the number of hours.

○ A) 20 miles
○ **B) 24 miles** ✓

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○ C) 18 miles

○ 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?

Hint: Think about situations where you can group items in fours.

☐ **A) Calculating the total number of legs on 4 dogs. ✔**

☐ **B) Determining the number of wheels on 4 bicycles. ✔**

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

☐ **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.

Hint: Think about how to calculate the total number of rows.

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

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

Hint: Look for an equation that splits 9 into two parts.

○ **A) 4 × 9 = (4 × 5) + (4 × 4) ✔**

○ B) 4 × 9 = (4 × 3) + (4 × 6)

○ C) 4 × 9 = (4 × 8) + (4 × 1)

○ D) 4 × 9 = (4 × 7) + (4 × 2)

> The correct equation is 4 × 9 = (4 × 5) + (4 × 4).

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Part 4: Evaluation and Creation

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

Hint: Look for equations that break down 15 into parts.

- [ ] **A) 4 × (10 + 5) ✓**
- [ ] B) 4 × (7 + 8)
- [ ] **C) 4 × (12 + 3) ✓**
- [ ] D) 4 × (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.

Hint: Think about a scenario where you can group items in fours.

> **Students should create a problem and provide a logical solution.**

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