

Multiply By 4 Worksheet

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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

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

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

Hint: Think about repeated addition.

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

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Hint: Calculate each product separately.

<1
 < 2
 < 3
 : 3

Part 2: Comprehension and Interpretation

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

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

- A) Associative Property
- B) Distributative Property
- C) Commutative Property
- OD) Identity Property

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

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

 $\begin{array}{|c|c|c|c|c|c|c|c|} \hline A & 4 \times (2+3) = (4 \times 2) + (4 \times 3) \\ \hline B & 4 \times (5+1) = (4 \times 5) + (4 \times 1) \\ \hline C & 4 \times (3+4) = (4 \times 3) + (4 \times 4) \\ \hline D & 4 \times (6+2) = (4 \times 6) + (4 \times 2) \\ \hline \end{array}$

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

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



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
- O B) 24 miles
- O C) 18 miles
- O D) 28 miles

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.

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.



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

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

 $\bigcirc A) 4 \times 9 = (4 \times 5) + (4 \times 4)$ $\bigcirc B) 4 \times 9 = (4 \times 3) + (4 \times 6)$ $\bigcirc C) 4 \times 9 = (4 \times 8) + (4 \times 1)$ $\bigcirc D) 4 \times 9 = (4 \times 7) + (4 \times 2)$

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)

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.