

Multiplication And Division Worksheets Questions and Answers PDF

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Part 1: Building a Foundation

What is the product of 7 and 8?

Hint: Think about the multiplication table.

- 54
- 56 ✓
- 64
- 72

■ The product of 7 and 8 is 56.

What is the product of 7 and 8?

Hint: Think about basic multiplication.

- A) 54
- B) 56 ✓
- C) 64
- D) 72

■ The product of 7 and 8 is 56.

What is the product of 7 and 8?

Hint: Think about basic multiplication.

- A) 54
- B) 56 ✓
- C) 64
- D) 72

| The product of 7 and 8 is 56.

Which of the following are properties of multiplication?

Hint: Consider the different ways multiplication can be performed.

- A) Commutative ✓
- A) Associative ✓
- A) Distributive ✓
- A) Subtractive

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

Which of the following are properties of multiplication?

Hint: Consider the different properties you have learned.

- A) Commutative ✓
- B) Associative ✓
- C) Distributive ✓
- D) Subtractive

| The properties include commutative, associative, and distributive.

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Hint: Consider the different properties you have learned.

- A) Commutative ✓
- B) Associative ✓
- C) Distributive ✓
- D) Subtractive

| The properties include commutative, associative, and distributive.

Explain the relationship between multiplication and division in your own words.

Hint: Think about how one operation can undo the other.

Multiplication and division are inverse operations; multiplication combines groups while division separates them.

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Multiplication and division are inverse operations.

Explain the relationship between multiplication and division in your own words.

Hint: Think about how one operation can undo the other.

Multiplication and division are inverse operations.

What is the multiplicative identity?

Hint: Think about what number keeps other numbers the same when multiplied.

0

- 1 ✓
 -1
 10

■ The multiplicative identity is 1, as any number multiplied by 1 remains unchanged.

What is the multiplicative identity?

Hint: Think about what number does not change another number when multiplied.

- A) 0
 B) 1 ✓
 C) -1
 D) 10

■ The multiplicative identity is 1.

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 B) 1 ✓
 C) -1
 D) 10

■ The multiplicative identity is 1.

Part 2: comprehension and Application

If $9 \times 5 = 45$, what is $45 \div 9$?

Hint: Think about the inverse operation of multiplication.

- 3
 5 ✓
 9
 45

■ $45 \div 9$ equals 5, as it is the inverse of the multiplication.

If $9 \times 5 = 45$, what is $45 \div 9$?

Hint: Think about the inverse operation of multiplication.

- A) 3
- B) 5 ✓
- C) 9
- D) 45

45 \div 9 equals 5.

If $9 \times 5 = 45$, what is $45 \div 9$?

Hint: Think about the inverse operation of multiplication.

- A) 3
- B) 5 ✓
- C) 9
- D) 45

45 \div 9 equals 5.

Which of the following statements are true about division?

Hint: Consider the properties and rules of division.

- A) Division is the inverse of multiplication. ✓
- A) Division by zero is undefined. ✓
- A) Division is commutative.
- A) Division can be checked by multiplication. ✓

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

Which of the following statements are true about division?

Hint: Consider the properties of division.

- A) Division is the inverse of multiplication. ✓
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- B) Division by zero is undefined. ✓**
- C) Division is commutative.
- D) Division can be checked by multiplication. ✓**

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

Describe how you would use an array to solve 4×6 .

Hint: Think about how arrays can represent multiplication visually.

An array can be used to visualize 4 rows of 6 items each, helping to understand multiplication.

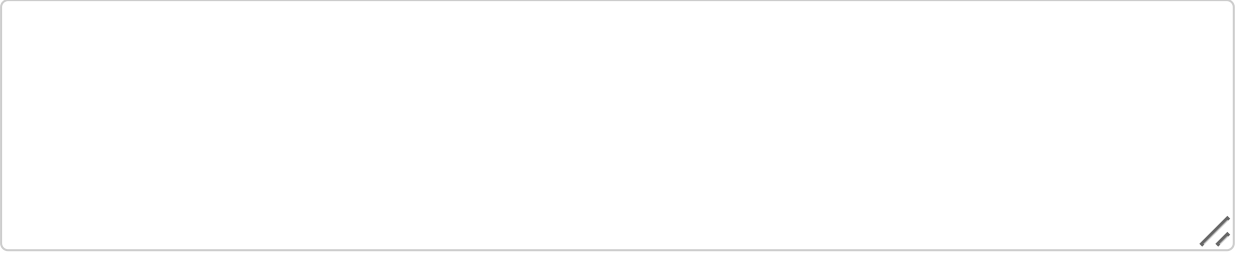
Describe how you would use an array to solve 4×6 .

Hint: Think about how arrays represent multiplication visually.

An array can be used to visualize the multiplication of 4 and 6.

Describe how you would use an array to solve 4×6 .

Hint: Think about how arrays can represent multiplication visually.



An array can be used to visualize the multiplication of 4 and 6.

A farmer has 36 apples and wants to pack them equally into 6 baskets. How many apples will each basket contain?

Hint: Think about how to divide the total number of apples by the number of baskets.

- 4
- 5
- 6 ✓
- 7

Each basket will contain 6 apples, as 36 divided by 6 equals 6.

A farmer has 36 apples and wants to pack them equally into 6 baskets. How many apples will each basket contain?

Hint: Think about how to divide the total number of apples.

- A) 4
- B) 6 ✓
- C) 5
- D) 7

Each basket will contain 6 apples.

A farmer has 36 apples and wants to pack them equally into 6 baskets. How many apples will each basket contain?

Hint: Think about how to divide the total number of apples.

- A) 4
- B) 6 ✓
- C) 5

D) 7

Each basket will contain 6 apples.

Which of the following scenarios involve multiplication?

Hint: Consider situations where you are combining groups or quantities.

- A) Calculating the total cost of 5 items each priced at \$3. ✓
- A) Splitting a bill equally among 4 friends.
- A) Determining the area of a rectangle with sides 4 cm and 5 cm. ✓
- A) Finding the average of 5 test scores.

Scenarios that involve multiplication include calculating total costs and determining area.

Which of the following scenarios involve multiplication?

Hint: Consider situations where you are combining quantities.

- A) Calculating the total cost of 5 items each priced at \$3. ✓
- B) Splitting a bill equally among 4 friends.
- C) Determining the area of a rectangle with sides 4 cm and 5 cm. ✓
- D) Finding the average of 5 test scores.

Scenarios A, C involve multiplication.

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- A) Calculating the total cost of 5 items each priced at \$3. ✓
- B) Splitting a bill equally among 4 friends.
- C) Determining the area of a rectangle with sides 4 cm and 5 cm. ✓
- D) Finding the average of 5 test scores.

Scenarios A, C involve multiplication.

Solve the word problem: If a car travels 60 miles per hour, how far will it travel in 3 hours?

Hint: Think about the formula $distance = speed \times time$.

The car will travel 180 miles, as 60 miles/hour multiplied by 3 hours equals 180 miles.

Solve the word problem: If a car travels 60 miles per hour, how far will it travel in 3 hours?

Hint: Think about the formula for distance.

The car will travel 180 miles.

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Hint: Think about the formula for distance.

The car will travel 180 miles.

Part 3: Analysis, Evaluation, and Creation

Which equation represents the distributive property?

Hint: Consider how multiplication interacts with addition.

- $3 \times (4 + 5) = 3 \times 4 + 3 \times 5$** ✓
- $3 + 4 = 4 + 3$
- $(3 \times 4) \times 5 = 3 \times (4 \times 5)$
- $3 \times 1 = 3$

■ The equation $3 \times (4 + 5) = 3 \times 4 + 3 \times 5$ represents the distributive property.

Which equation represents the distributive property?

Hint: Think about how to distribute multiplication over addition.

- A) $3 \times (4 + 5) = 3 \times 4 + 3 \times 5$** ✓
- B) $3 + 4 = 4 + 3$
- C) $(3 \times 4) \times 5 = 3 \times (4 \times 5)$
- D) $3 \times 1 = 3$

■ The correct equation is $3 \times (4 + 5) = 3 \times 4 + 3 \times 5$.

Which equation represents the distributive property?

Hint: Think about how multiplication distributes over addition.

- A) $3 \times (4 + 5) = 3 \times 4 + 3 \times 5$** ✓
- B) $3 + 4 = 4 + 3$
- C) $(3 \times 4) \times 5 = 3 \times (4 \times 5)$
- D) $3 \times 1 = 3$

■ The correct equation is $3 \times (4 + 5) = 3 \times 4 + 3 \times 5$.

Analyze the following statements and identify which are correct:

Hint: Consider the properties of multiplication and division.

- A) Multiplication is always commutative.** ✓
- A) Division is always associative.
- A) The result of multiplying two negative numbers is positive.** ✓
- A) The result of dividing a number by itself is always 1.** ✓

Correct statements include that multiplication is commutative and the result of multiplying two negative numbers is positive.

Analyze the following statements and identify which are correct:

Hint: Consider the properties of multiplication and division.

- A) Multiplication is always commutative. ✓**
- B) Division is always associative.
- C) The result of multiplying two negative numbers is positive. ✓**
- D) The result of dividing a number by itself is always 1. ✓**

Correct statements include A, C, and D.

Analyze the following statements and identify which are correct:

Hint: Consider the properties of multiplication and division.

- A) Multiplication is always commutative. ✓**
- B) Division is always associative.
- C) The result of multiplying two negative numbers is positive. ✓**
- D) The result of dividing a number by itself is always 1. ✓**

Correct statements include A, C, and D.

Explain why the equation $8 \div 0$ is undefined.

Hint: Think about what happens when you try to divide by zero.

The equation $8 \div 0$ is undefined because division by zero does not yield a valid result.

Explain why the equation $8 \div 0$ is undefined.

Hint: Think about what happens when you divide by zero.

Dividing by zero is undefined because it does not produce a valid result.

Explain why the equation $8 \div 0$ is undefined.

Hint: Think about what happens when you divide by zero.

Dividing by zero is undefined because it does not produce a valid result.

Which of the following best evaluates the expression $2 \times (3 + 4) \div 2$?

Hint: Remember to follow the order of operations.

- 3.5
- 7 ✓
- 14
- 10

The expression evaluates to 7 when following the order of operations.

Which of the following best evaluates the expression $2 \times (3 + 4) \div 2$?

Hint: Follow the order of operations.

- A) 3.5
- B) 7 ✓
- C) 14
- D) 10

| The expression evaluates to 7.

Which of the following best evaluates the expression $2 \times (3 + 4) \div 2$?

Hint: Follow the order of operations.

- A) 3.5
- B) 7 ✓
- C) 14
- D) 10

| The correct evaluation is 7.

Evaluate the following strategies for solving 12×15 efficiently:

Hint: Consider different methods of multiplication.

- A) Use the distributive property: $12 \times (10 + 5)$ ✓
- A) Multiply directly: 12×15 ✓
- A) Break into smaller parts: $(10 \times 15) + (2 \times 15)$ ✓
- A) Use a calculator ✓

| Using the distributive property or breaking into smaller parts are efficient strategies for solving 12×15 .

Evaluate the following strategies for solving 12×15 efficiently:

Hint: Consider different methods of multiplication.

- A) Use the distributive property: $12 \times (10 + 5)$ ✓
- B) Multiply directly: 12×15 ✓
- C) Break into smaller parts: $(10 \times 15) + (2 \times 15)$ ✓
- D) Use a calculator ✓

| All strategies are valid for solving 12×15 .

Evaluate the following strategies for solving 12×15 efficiently:

Hint: Consider different methods of multiplication.

- A) Use the distributive property: $12 \times (10 + 5)$ ✓
- B) Multiply directly: 12×15 ✓
- C) Break into smaller parts: $(10 \times 15) + (2 \times 15)$ ✓

D) Use a calculator ✓

Strategies A, C, and D are efficient methods.

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

Hint: Think about a scenario that requires both operations.

An example could be calculating the total cost of items and then dividing by the number of people sharing the cost.

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

Hint: Think about a scenario that requires both operations.

A real-world problem could involve calculating total costs and splitting them.

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

Hint: Think about a scenario that requires both operations.

The problem should involve a situation where both operations are necessary.