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Multiplying Integers Worksheet Questions and Answers PDF

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Part 1: Foundational Knowledge

What is the result of multiplying two negative integers?

Hint: Consider the rules of signs in multiplication.

◯ **A) Positive** ✔
◯ A) Negative
◯ A) Zero
◯ A) Undefined

❘ The product of two negative integers is positive.

What is the result of multiplying two negative integers?

Hint: Think about the rules of multiplying negative numbers.

◯ **A) Positive** ✔
◯ A) Negative
◯ A) Zero
◯ A) Undefined

❘ The result is positive.

Which of the following are considered integers? (Select all that apply)

Hint: Remember that integers include whole numbers and their negatives.

☐ **A) -3** ✔
☐ A) 0.5
☐ **A) 7** ✔
☐ **A) 0** ✔

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Integers include negative numbers, zero, and positive whole numbers.

Which of the following are considered integers? (Select all that apply)

Hint: Remember that integers are whole numbers.

☐ **A) -3 ✓**
☐ A) 0.5
☐ **A) 7 ✓**
☐ **A) 0 ✓**

The integers are -3, 7, and 0.

Explain the commutative property of multiplication using integers.

Hint: Think about how changing the order of factors affects the product.

The commutative property states that changing the order of the integers does not change the product.

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List the outcomes of multiplying the following pairs of integers:

Hint: Calculate each product carefully.

1. a) 4 × -5

> -20

2. b) -6 × -2

> 12

3. c) 3 × 0

> 0

> The products are: a) -20, b) 12, c) 0.

List the outcomes of multiplying the following pairs of integers:

Hint: Calculate each product carefully.

1. a) 4 × -5

> -20

2. b) -6 × -2

> 12

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3. c) 3 × 0

0

The outcomes are -20, 12, and 0.

Which property of multiplication states that the product of any integer and zero is zero?

Hint: Think about the role of zero in multiplication.

○ A) Commutative Property
○ A) Associative Property
○ **A) Zero Property** ✔
○ A) Multiplicative Identity

This is known as the Zero Property of Multiplication.

Which property of multiplication states that the product of any integer and zero is zero?

Hint: Think about the special role of zero in multiplication.

○ A) Commutative Property
○ A) Associative Property
○ **A) Zero Property** ✔
○ A) Multiplicative Identity

This is known as the Zero Property.

Part 2: comprehension

If a positive integer is multiplied by a negative integer, what is the sign of the product?

Hint: Consider the rules of signs in multiplication.

○ A) Positive
○ **A) Negative** ✔
○ A) Zero
○ A) Cannot be determined

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> The product will be negative.

If a positive integer is multiplied by a negative integer, what is the sign of the product?

Hint: Consider the rules for multiplying integers with different signs.

○ A) Positive
○ **A) Negative** ✓
○ A) Zero
○ A) Cannot be determined

> The product will be negative.

Which of the following scenarios correctly apply the associative property of multiplication? (Select all that apply)

Hint: Think about how grouping affects the product.

☐ **A) (2 × 3) × 4 = 2 × (3 × 4)** ✓
☐ **A) 5 × (1 × 6) = (5 × 1) × 6** ✓
☐ A) 7 × 0 = 0
☐ **A) (8 × 2) × 1 = 8 × (2 × 1)** ✓

> The associative property allows for regroupment without changing the product.

Which of the following scenarios correctly apply the associative property of multiplication? (Select all that apply)

Hint: Think about how grouping affects the product.

☐ **A) (2 × 3) × 4 = 2 × (3 × 4)** ✓
☐ **A) 5 × (1 × 6) = (5 × 1) × 6** ✓
☐ A) 7 × 0 = 0
☐ **A) (8 × 2) × 1 = 8 × (2 × 1)** ✓

> The correct scenarios are A, B, and D.

Describe a real-world situation where multiplying integers is necessary, and explain the significance of the sign of the product.

Hint: Think about scenarios involving gains and losses.

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> **Multiplying integers can represent real-world situations like financial gains or losses.**

Describe a real-world situation where multiplying integers is necessary, and explain the significance of the sign of the product.

Hint: Think about scenarios involving gains and losses.

> **A real-world example could be calculating profit and loss.**

Part 3: Application and Analysis

A hiker descends a mountain at a rate of 300 feet per hour. If the hiker continues this descent for 4 hours, what is the total change in elevation?

Hint: Calculate the total distance using multiplication.

○ A) 1200 feet
○ **A) -1200 feet ✓**
○ A) 300 feet
○ A) -300 feet

> The total change in elevation is -1200 feet.

A hiker descends a mountain at a rate of 300 feet per hour. If the hiker continues this descent for 4 hours, what is the total change in elevation?

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Hint: Calculate the total change using multiplication.

◯ A) 1200 feet

◯ **A) -1200 feet ✔**

◯ A) 300 feet

◯ A) -300 feet

❘ The total change in elevation is -1200 feet.

In which of the following situations would you use integer multiplication? (Select all that apply)

Hint: Consider scenarios involving gains, losses, and quantities.

☐ **A) Calculating the total loss in a stock market crash ✔**

☐ A) Determining the number of apples in 5 baskets, each containing 10 apples

☐ A) Measuring the distance traveled by a car moving at a constant speed

☐ **A) Calculating the total temperature drop over several days ✔**

❘ Integer multiplication is used in scenarios involving total changes or quantities.

In which of the following situations would you use integer multiplication? (Select all that apply)

Hint: Consider scenarios involving gains and losses.

☐ **A) Calculating the total loss in a stock market crash ✔**

☐ A) Determining the number of apples in 5 baskets, each containing 10 apples

☐ A) Measuring the distance traveled by a car moving at a constant speed

☐ **A) Calculating the total temperature drop over several days ✔**

❘ The applicable situations are A and D.

A company reports a profit of $200 each day for 5 consecutive days, followed by a loss of $150 each day for 3 consecutive days. Calculate the net profit or loss over these 8 days.

Hint: Calculate the total profit and total loss separately.

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The net profit over these 8 days is $650.

A company reports a profit of $200 each day for 5 consecutive days, followed by a loss of $150 each day for 3 consecutive days. Calculate the net profit or loss over these 8 days.

Hint: Consider both the profit and the loss in your calculation.

The net profit is $650.

Analyze the expression (-3) × (2 × -4). Which of the following is the correct product?

Hint: Use the order of operations to simplify the expression.

○ **A) 24 ✓**
○ A) -24
○ A) 12
○ A) -12

The correct product is 24.

Analyze the expression (-3) × (2 × -4). Which of the following is the correct product?

Hint: Use the order of operations to simplify the expression.

○ **A) 24 ✓**
○ A) -24
○ A) 12
○ A) -12

The correct product is 24.

Part 4: Evaluation and Creation

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Evaluate the following statement: "Multiplying any integer by zero always results in zero, regardless of the integer's sign." Is this statement:

Hint: Consider the properties of multiplication.

◯ **A) True** ✔
◯ A) False
◯ A)
◯ A)

| This statement is true.

Create a real-world problem that involves multiplying integers and select the correct scenario:

Hint: Think about situations involving quantities and changes.

☐ **A) Calculating the net change in temperature over a week** ✔
☐ A) Determining the total cost of items in a shopping cart
☐ A) Estimating the total distance traveled by a vehicle
☐ **A) Calculating the net profit or loss in a business over a month** ✔

| The correct scenario involves calculating net profit or loss.

Create a real-world problem that involves multiplying integers and select the correct scenario:

Hint: Think about situations involving quantities and costs.

☐ **A) Calculating the net change in temperature over a week** ✔
☐ A) Determining the total cost of items in a shopping cart
☐ A) Estimating the total distance traveled by a vehicle
☐ **A) Calculating the net profit or loss in a business over a month** ✔

| The correct scenarios are A and D.

Design a scenario where multiplying integers is necessary to solve a problem. Explain the situation, the integers involved, and the significance of the result.

Hint: Think about real-world applications of integer multiplication.

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> **A scenario could involve calculating total expenses or profits.**

Design a scenario where multiplying integers is necessary to solve a problem. Explain the situation, the integers involved, and the significance of the result.

Hint: Consider real-life applications of integer multiplication.

> **A scenario could involve calculating total expenses or profits.**

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