

Multiplying And Dividing Integers Answer Key

Name : _____

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Multiplying and Dividing Integers

Sheet 1

Simplify.

1) $6 \times (-4) =$ _____

2) $(-105) \div 7 =$ _____

3) $117 \div 13 =$ _____

4) $(-2) \times (-10) =$ _____

5) $(-11) \times 5 =$ _____

6) $108 \div (-9) =$ _____

7) $(-154) \div (-14) =$ _____

8) $13 \times 12 =$ _____

9) $8 \times 3 =$ _____

10) $(-48) \div (-6) =$ _____

11) $(-40) \div 10 =$ _____

12) $4 \times (-15) =$ _____

13) $(-12) \times (-7) =$ _____

14) $35 \div 5 =$ _____

15) $90 \div (-15) =$ _____

16) $(-1) \times 1 =$ _____

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Multiplying and dividing integers answer key is an essential concept in mathematics that students encounter early in their education. Understanding how to correctly multiply and divide integers lays the foundation for more complex mathematical operations. This article will explore the rules, examples, and common pitfalls associated with multiplying and dividing integers, providing a comprehensive answer key to help students and educators alike.

Understanding Integers

Before diving into multiplication and division, let's clarify what integers are. Integers are whole numbers that can be positive, negative, or zero. They are represented as follows:

- Positive integers: 1, 2, 3, ...
- Negative integers: -1, -2, -3, ...
- Zero: 0

Understanding the properties of integers is crucial for performing arithmetic operations accurately.

Rules for Multiplying Integers

When multiplying integers, it is vital to follow specific rules to ensure correct results. Here are the primary rules:

1. Signs Matter

- Positive \times Positive = Positive
Example: $(3 \times 4 = 12)$
- Negative \times Negative = Positive
Example: $(-3 \times -4 = 12)$
- Positive \times Negative = Negative
Example: $(3 \times -4 = -12)$
- Negative \times Positive = Negative
Example: $(-3 \times 4 = -12)$

2. Associative Property

The order in which you multiply numbers does not change the result.

Example: $(2 \times (3 \times 4) = (2 \times 3) \times 4 = 24)$

3. Commutative Property

The arrangement of the integers does not affect the product.

Example: $(5 \times 2 = 2 \times 5 = 10)$

4. Zero Property

Any integer multiplied by zero equals zero.

Example: $(5 \times 0 = 0)$

Rules for Dividing Integers

Dividing integers also follows specific rules. Here's what you need to know:

1. Signs Matter

- Positive \div Positive = Positive

Example: $(12 \div 3 = 4)$

- Negative \div Negative = Positive

Example: $(-12 \div -3 = 4)$

- Positive \div Negative = Negative

Example: $(12 \div -3 = -4)$

- Negative \div Positive = Negative

Example: $(-12 \div 3 = -4)$

2. Dividing by Zero

It is essential to remember that division by zero is undefined. For instance, $(5 \div 0)$ does not yield a valid result.

3. Associative and Commutative Properties

Unlike multiplication, division is not commutative or associative. The order in which you divide numbers matters significantly.

Example: $(10 \div 2 \neq 2 \div 10)$

Examples of Multiplying and Dividing Integers

To further illustrate these concepts, let's look at some examples.

Multiplication Examples

1. Calculate (-6×3)

Solution: $(-6 \times 3 = -18)$

2. Calculate (4×-5)

Solution: $(4 \times -5 = -20)$

3. Calculate (-2×-3)

Solution: $(-2 \times -3 = 6)$

4. Calculate (0×10)

Solution: $(0 \times 10 = 0)$

Division Examples

1. Calculate $(15 \div -3)$

Solution: $(15 \div -3 = -5)$

2. Calculate $(-20 \div -4)$

Solution: $(-20 \div -4 = 5)$

3. Calculate $(8 \div 2)$

Solution: $(8 \div 2 = 4)$

4. Calculate $(-9 \div 0)$

Solution: Undefined

Common Mistakes When Multiplying and Dividing Integers

Understanding the rules is important, but being aware of common mistakes can further enhance learning. Here are some frequent errors students make:

- **Confusing Signs:** Forgetting that a negative times a positive yields a negative result.
- **Dividing by Zero:** Attempting to divide by zero, which is undefined.
- **Misapplying the Commutative Property:** Assuming that division works the same way as multiplication.
- **Overlooking Zero Property:** Forgetting that any number multiplied by zero is zero.

Practice Problems

To solidify your understanding, try solving the following problems:

Multiplication Practice

1. (7×-3)

2. (-8×-2)

3. (0×-5)

Division Practice

1. $(-10 \div 2)$

2. $(18 \div -6)$

3. $(12 \div 0)$

Conclusion

In conclusion, the **multiplying and dividing integers answer key** serves as a vital resource for students and educators. By understanding the rules and practicing regularly, learners can improve their skills in these fundamental operations. Remember to keep the rules in mind, practice diligently, and avoid common pitfalls to master the arithmetic of integers. With the right approach, anyone can become proficient in multiplying and dividing integers, paving the way for success in more advanced mathematical concepts.

Frequently Asked Questions

What are the basic rules for multiplying integers?

When multiplying integers, if the signs are the same (both positive or both negative), the product is positive. If the signs are different (one positive and one negative), the product is negative.

How do you divide integers with different signs?

When dividing integers, if the signs of the numbers are different, the quotient is negative. For example, $-6 \div 2 = -3$.

What is the product of -4 and 5?

The product of -4 and 5 is -20, since the signs are different.

What is 15 divided by -3?

15 divided by -3 equals -5, as the signs are different.

Can you multiply a positive integer by zero?

Yes, any integer multiplied by zero is always zero. For example, $7 \times 0 = 0$.

What is the result of multiplying two negative integers?

The result of multiplying two negative integers is positive. For example, $-3 \times -4 = 12$.

How do you handle the division of zero by an integer?

Zero divided by any non-zero integer is zero. For example, $0 \div 5 = 0$. However, dividing by zero is undefined.

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