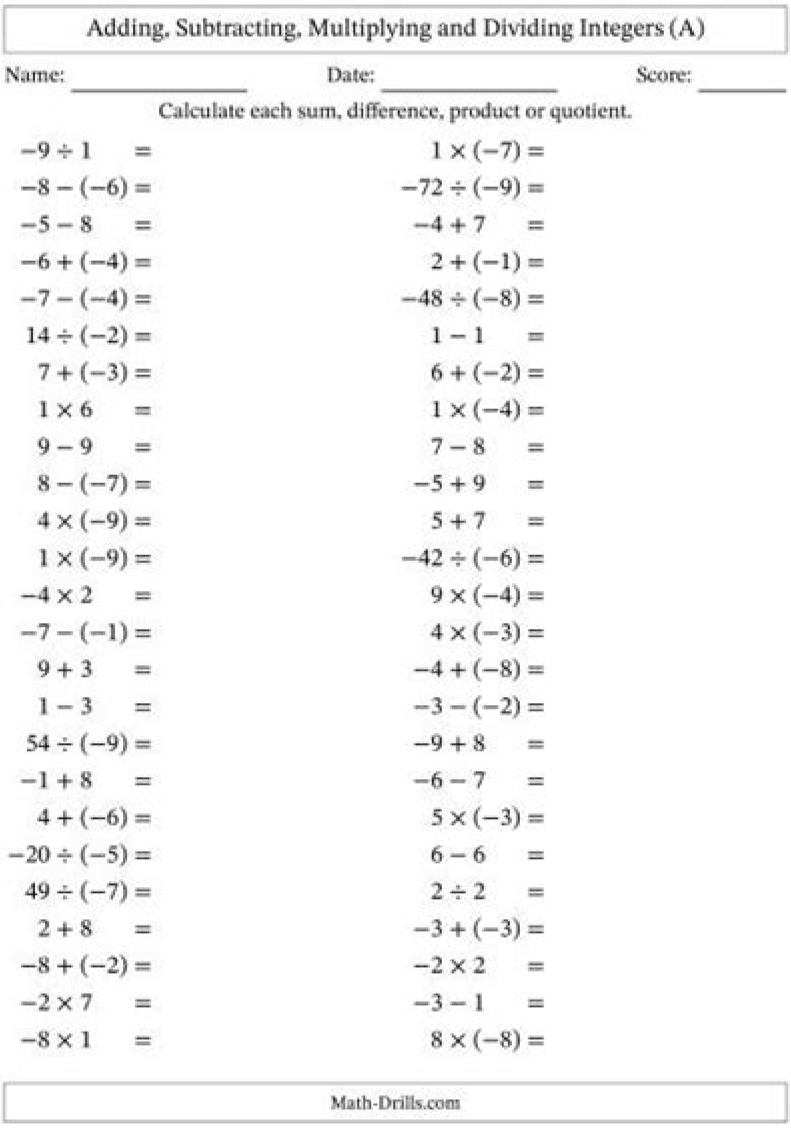
All Operations With Integers Worksheet Answers



Adding, Subtracting, Multiplying and Dividing Integers (A)

Name: ______________ Date: ______________ Score: _______

Calculate each sum, difference, product or quotient.

$-9 \div 1 =$
$-8 - (-6) =$
$-5 - 8 =$
$-6 + (-4) =$
$-7 - (-4) =$
$14 \div (-2) =$
$7 + (-3) =$
$1 \times 6 =$
$9 - 9 =$
$8 - (-7) =$
$4 \times (-9) =$
$1 \times (-9) =$
$-4 \times 2 =$
$-7 - (-1) =$
$9 + 3 =$
$1 - 3 =$
$54 \div (-9) =$
$-1 + 8 =$
$4 + (-6) =$
$-20 \div (-5) =$
$49 \div (-7) =$
$2 + 8 =$
$-8 + (-2) =$
$-2 \times 7 =$
$-8 \times 1 =$

$1 \times (-7) =$
$-72 \div (-9) =$
$-4 + 7 =$
$2 + (-1) =$
$-48 \div (-8) =$
$1 - 1 =$
$6 + (-2) =$
$1 \times (-4) =$
$7 - 8 =$
$-5 + 9 =$
$5 + 7 =$
$-42 \div (-6) =$
$9 \times (-4) =$
$4 \times (-3) =$
$-4 + (-8) =$
$-3 - (-2) =$
$-9 + 8 =$
$-6 - 7 =$
$5 \times (-3) =$
$6 - 6 =$
$2 \div 2 =$
$-3 + (-3) =$
$-2 \times 2 =$
$-3 - 1 =$
$8 \times (-8) =$

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All Operations with Integers Worksheet Answers

Understanding integers and performing operations with them is a fundamental skill in mathematics that extends into various real-world applications. This article aims to delve into all operations involving integers—addition, subtraction, multiplication, and division—and provide insight into how these operations are carried out, complete with examples and answers typically found on an "operations with integers" worksheet.

Understanding Integers

Integers are whole numbers that can be positive, negative, or zero. The set of integers is represented as:

- Positive integers: 1, 2, 3, ...

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

Integers do not include fractions, decimals, or any non-whole numbers. Operations with integers are governed by specific rules that dictate how numbers interact with one another.

Operations with Integers

Operations with integers include:

1. Addition
2. Subtraction
3. Multiplication
4. Division

Each of these operations has its own set of rules and procedures. Let's explore each one in detail.

1. Addition of Integers

Adding integers involves combining their values. The rules for adding integers are:

- Positive + Positive = Positive
- Negative + Negative = Negative
- Positive + Negative = Depends on the absolute values

Examples:

- $5 + 3 = 8$ (Positive + Positive)
- $-4 + (-7) = -11$ (Negative + Negative)
- $6 + (-4) = 2$ (Positive + Negative)

Worksheet Answers:
1. $7 + 3 = 10$
2. $-2 + (-5) = -7$
3. $4 + (-10) = -6$

2. Subtraction of Integers

Subtracting integers can be thought of as adding the opposite. The rules for subtraction are:

- Subtracting a positive integer is the same as adding a negative integer.
- Subtracting a negative integer is the same as adding a positive integer.

Examples:

- $5 - 3 = 2$ (Same as $5 + (-3)$)
- $-4 - 2 = -6$ (Same as $-4 + (-2)$)
- $3 - (-2) = 5$ (Same as $3 + 2$)

Worksheet Answers:
1. $10 - 4 = 6$
2. $-3 - 5 = -8$
3. $8 - (-2) = 10$

3. Multiplication of Integers

Multiplying integers involves repeated addition. The multiplication rules are:

- Positive × Positive = Positive
- Negative × Negative = Positive
- Positive × Negative = Negative
- Negative × Positive = Negative

Examples:

- \(4 × 3 = 12\) (Positive × Positive)
- \(-2 × -3 = 6\) (Negative × Negative)
- \(-5 × 4 = -20\) (Negative × Positive)

Worksheet Answers:
1. \(6 × 3 = 18\)
2. \(-7 × -2 = 14\)
3. \(-4 × 5 = -20\)

4. Division of Integers

Dividing integers involves distributing a number into equal parts. The division rules are similar to multiplication:

- Positive ÷ Positive = Positive
- Negative ÷ Negative = Positive
- Positive ÷ Negative = Negative
- Negative ÷ Positive = Negative

Examples:

- \(12 ÷ 3 = 4\) (Positive ÷ Positive)
- \(-15 ÷ -3 = 5\) (Negative ÷ Negative)
- \(-20 ÷ 4 = -5\) (Negative ÷ Positive)

Worksheet Answers:
1. \(20 ÷ 4 = 5\)
2. \(-30 ÷ -6 = 5\)
3. \(-24 ÷ 6 = -4\)

Order of Operations

When performing multiple operations with integers, the order of operations must be followed, commonly remembered by the acronym PEMDAS (Parentheses, Exponents, Multiplication and Division (from left to right), Addition and Subtraction (from left to right)).

Example:
Calculate \(3 + 4 × 2 - 5\)

1. Perform multiplication first: \(4 × 2 = 8\)
2. Now the expression is \(3 + 8 - 5\)
3. Perform addition and subtraction from left to right:
- \(3 + 8 = 11\)

- $11 - 5 = 6$

Worksheet Answer:
1. $3 + 4 \times 2 - 5 = 6$

Common Mistakes to Avoid

Understanding and working with integers can sometimes lead to errors. Here are some common mistakes to watch out for:

- Confusing the signs: Remember that two negatives make a positive in multiplication and division, but they do not in addition and subtraction.
- Misapplying the order of operations: Always follow PEMDAS to avoid mistakes in complex calculations.
- Forgetting to change the sign when subtracting: Remember that subtracting a negative is like adding a positive.

Practice Problems

To solidify your understanding of operations with integers, consider the following practice problems:

1. $8 + (-3) = ?$
2. $-6 - 4 = ?$
3. $7 \times (-2) = ?$
4. $-12 \div 4 = ?$
5. $5 + 2 \times 3 - 6 = ?$

Answers:
1. 5
2. -10
3. -14
4. -3
5. 5

Conclusion

Mastering operations with integers is crucial not only for academic success but also for everyday problem-solving. By understanding the rules of addition, subtraction, multiplication, and division, and practicing with various problems, learners can enhance their mathematical skills. Regularly working on worksheets that focus on these operations can provide valuable practice and reinforce the concepts discussed in this article. Whether you are a student, teacher, or just someone looking to refresh your knowledge, the ability to confidently navigate integer operations is a key mathematical competency.

Frequently Asked Questions

What are the basic operations with integers covered in worksheets?

The basic operations include addition, subtraction, multiplication, and division of integers.

How do you find the sum of two integers with different signs?

To find the sum of two integers with different signs, subtract the smaller absolute value from the larger absolute value and use the sign of the integer with the larger absolute value.

What is the product of two negative integers?

The product of two negative integers is always a positive integer.

How do you divide integers with different signs?

When dividing integers with different signs, the result is always negative.

What should you do when subtracting a negative integer?

When subtracting a negative integer, you can add its absolute value instead.

What is an example of an integer addition problem?

An example would be -3 + 5, which equals 2.

How can I check my answers on an integers worksheet?

You can check your answers by performing the operations again or using a calculator to verify the results.

What common mistakes should I avoid when working with integers?

Common mistakes include miscalculating signs, especially when multiplying or dividing negative integers, and forgetting to apply the order of operations.

Where can I find practice worksheets for integers?

You can find practice worksheets for integers on educational websites, math resource platforms, or by searching for printable PDF worksheets online.

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