

# Multiply And Divide Integers Worksheet

Name \_\_\_\_\_ Date \_\_\_\_\_



## Multiply and Divide Integers



Find each product or quotient.

1.  $-5 \times 9 =$  \_\_\_\_\_
2.  $-50 \div (-5) =$  \_\_\_\_\_
3.  $6 \times (-8) =$  \_\_\_\_\_
4.  $32 \div (-4) =$  \_\_\_\_\_
5.  $-7 \times (-3) =$  \_\_\_\_\_
6.  $-63 \div 7 =$  \_\_\_\_\_
7.  $8 \times (-5) =$  \_\_\_\_\_
8.  $81 \div (-9) =$  \_\_\_\_\_
9.  $-6 \times 10 =$  \_\_\_\_\_
10.  $-11 \times 6 =$  \_\_\_\_\_
11.  $7 \times (-4) =$  \_\_\_\_\_
12.  $-33 \div (-3) =$  \_\_\_\_\_
13.  $-24 \div (-2) =$  \_\_\_\_\_
14.  $-9 \times (-3) =$  \_\_\_\_\_
15.  $-56 \div 7 =$  \_\_\_\_\_
16.  $-110 \div 10 =$  \_\_\_\_\_
17.  $-20 \times (-2) =$  \_\_\_\_\_
18.  $560 \div (-7) =$  \_\_\_\_\_
19.  $30 \times (-6) =$  \_\_\_\_\_
20.  $-240 \div 12 =$  \_\_\_\_\_
21.  $150 \div (-30) =$  \_\_\_\_\_
22.  $-40 \times (-80) =$  \_\_\_\_\_
23.  $-250 \div 5 =$  \_\_\_\_\_
24.  $-30 \times (-40) =$  \_\_\_\_\_
25.  $-500 \times 7 =$  \_\_\_\_\_
26.  $600 \div (-5) =$  \_\_\_\_\_
27.  $-640 \div (-80) =$  \_\_\_\_\_
28.  $-210 \div (-3) =$  \_\_\_\_\_
29.  $900 \times (-7) =$  \_\_\_\_\_
30.  $-200 \div 4 =$  \_\_\_\_\_
31.  $-4 \times (-64) =$  \_\_\_\_\_
32.  $-574 \div (-7) =$  \_\_\_\_\_
33.  $216 \div (-9) =$  \_\_\_\_\_
34.  $17 \times (-5) =$  \_\_\_\_\_
35.  $-152 \div (-8) =$  \_\_\_\_\_
36.  $-9 \times 81 =$  \_\_\_\_\_



## Multiply and Divide Integers Worksheet: Mastering Integer Arithmetic

Are you struggling to conquer the world of integers? Do multiplication and division with negative numbers leave you feeling confused and frustrated? You're not alone! Many students find integer operations challenging, but with the right practice and resources, mastering them is entirely achievable. This blog post provides you with everything you need to confidently tackle integer multiplication and division: a comprehensive understanding of the concepts, valuable practice problems, and downloadable worksheets to solidify your skills. We'll explore the rules, provide examples, and offer tips to help you achieve mastery. Let's dive in!

# Understanding the Rules of Integer Multiplication and Division

Before we jump into worksheets, it's crucial to understand the fundamental rules governing integer multiplication and division. These rules are the cornerstone of accurate calculations:

## Rule 1: Multiplying and Dividing Integers with the Same Sign

When you multiply or divide two integers with the same sign (both positive or both negative), the result is always positive.

Example:  $5 \times 3 = 15$ ;  $(-5) \times (-3) = 15$ ;  $10 \div 2 = 5$ ;  $(-10) \div (-2) = 5$

## Rule 2: Multiplying and Dividing Integers with Different Signs

When you multiply or divide two integers with different signs (one positive and one negative), the result is always negative.

Example:  $5 \times (-3) = -15$ ;  $(-5) \times 3 = -15$ ;  $10 \div (-2) = -5$ ;  $(-10) \div 2 = -5$

## Rule 3: The Order of Operations (PEMDAS/BODMAS)

Remember the order of operations (Parentheses/Brackets, Exponents/Orders, Multiplication and Division, Addition and Subtraction - PEMDAS/BODMAS). Multiplication and division have equal precedence and are performed from left to right.

Example:  $-2 \times 3 + 4 \div (-2) = -6 + (-2) = -8$

## Multiply and Divide Integers Worksheet: Practice Problems

Now let's put those rules into practice! Here are some sample problems to test your understanding. Remember to show your work!

Level 1 (Basic):

1.  $-4 \times 6 = ?$
2.  $12 \div (-3) = ?$
3.  $-7 \times (-5) = ?$
4.  $-15 \div 5 = ?$
5.  $8 \times (-2) = ?$

Level 2 (Intermediate):

1.  $(-3) \times (-2) \times 4 = ?$
2.  $18 \div (-3) \times 2 = ?$
3.  $-5 \times (6 \div (-2)) = ?$
4.  $(-10 + 4) \div (-3) = ?$
5.  $(-2) \times (-5) - 10 = ?$

Level 3 (Advanced):

1.  $(-3)^2 \times (-2) + 10 \div (-5) = ?$
2.  $[( -4 \times 2 ) + 6] \div (-2) = ?$
3.  $(-12) \div (3 \times -2) + 5 \times (-1) = ?$
4.  $(8 - 12) \div (-2) \times (-3) = ?$
5.  $-2 \times [-3 + (-4) \times 2] \div 5 = ?$

## Downloadable Multiply and Divide Integers Worksheet

To further enhance your learning, we've prepared a downloadable worksheet containing a wider variety of problems. This worksheet includes problems of varying difficulty levels, allowing you to progress at your own pace and solidify your understanding. [Link to downloadable PDF worksheet here] (Note: You would replace this bracketed text with an actual link to a downloadable PDF you create)

## Tips for Success

**Practice Regularly:** Consistent practice is key to mastering any math concept. Aim for short, regular practice sessions rather than cramming.

**Break Down Complex Problems:** For more challenging problems, break them down into smaller, manageable steps. This will help you avoid errors and increase your understanding.

**Use Visual Aids:** Visual aids, such as number lines, can be helpful in visualizing integer operations.

**Check Your Answers:** Always check your answers carefully to ensure accuracy. Use a calculator to verify your results, especially for complex problems.

## Conclusion

Mastering integer multiplication and division is a critical step in your mathematical journey. By understanding the fundamental rules and practicing regularly, you can overcome any challenges and build a strong foundation. Remember to utilize the provided worksheet and follow the tips for success. With dedication and consistent effort, you will confidently tackle any integer arithmetic problem that comes your way!

## FAQs

1. What happens if I have more than two integers to multiply or divide? You apply the rules sequentially, working from left to right. The sign of the final answer will be positive if there are an even number of negative integers and negative if there are an odd number.
2. Can I use a calculator for integer operations? While calculators are helpful for checking answers, it's important to understand the underlying concepts and be able to perform the calculations manually.
3. What resources are available beyond this worksheet? Many online resources, such as Khan Academy and IXL, offer interactive lessons and practice problems on integer operations.
4. Why are negative numbers important? Negative numbers are crucial in many real-world applications, including temperature, finance (debts), and elevation (below sea level).
5. What if I keep getting the wrong answers? Review the rules carefully, and try working through simpler problems first. If you're still struggling, seek help from a teacher or tutor. They can identify any misunderstandings and provide personalized support.

**multiply and divide integers worksheet:** *Prealgebra* Lynn Marecek, MaryAnne Anthony-Smith, 2015-09-25 *Prealgebra* is designed to meet scope and sequence requirements for a one-semester prealgebra course. The text introduces the fundamental concepts of algebra while addressing the needs of students with diverse backgrounds and learning styles. Each topic builds upon previously developed material to demonstrate the cohesiveness and structure of mathematics. *Prealgebra* follows a nontraditional approach in its presentation of content. The beginning, in particular, is presented as a sequence of small steps so that students gain confidence in their ability to succeed in the course. The order of topics was carefully planned to emphasize the logical progression throughout the course and to facilitate a thorough understanding of each concept. As new ideas are presented, they are explicitly related to previous topics.--BC Campus website.

**multiply and divide integers worksheet:** Multiplication & Division Quick Starts Workbook Mark Twain Media, 2019-01-02 The Multiplication & Division Quick Starts workbook includes multiplication and division with whole numbers, fractions, and decimals, as well as in word problems. Activities include models, quick drills, problems in vertical and horizontal format, explanations and examples, and reviews. Each page features two to four quick starts that can be cut apart and used separately. The entire page may also be used as a whole-class or individual assignment. The Quick Starts Series provides students in grades 4 through 8+ with quick review activities in science, math, language arts, and social studies. The activities provide students with a quick start for the day's lesson and help students build and maintain a powerful domain-specific vocabulary. Each book is correlated to current state, national, and provincial standards. Mark Twain Media Publishing Company specializes in providing engaging supplemental books and decorative resources to complement middle- and upper-grade classrooms. Designed by leading educators, this product line covers a range of subjects including mathematics, sciences, language arts, social studies, history, government, fine arts, and character.

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**multiply and divide integers worksheet:** Prealgebra 2e Lynn Marecek, Maryanne Anthony-Smith, Andrea Honeycutt Mathis, 2020-03-11 The images in this book are in color. For a less-expensive grayscale paperback version, see ISBN 9781680923254. Prealgebra 2e is designed to meet scope and sequence requirements for a one-semester prealgebra course. The text introduces the fundamental concepts of algebra while addressing the needs of students with diverse backgrounds and learning styles. Each topic builds upon previously developed material to demonstrate the cohesiveness and structure of mathematics. Students who are taking basic mathematics and prealgebra classes in college present a unique set of challenges. Many students in these classes have been unsuccessful in their prior math classes. They may think they know some math, but their core knowledge is full of holes. Furthermore, these students need to learn much more than the course content. They need to learn study skills, time management, and how to deal with math anxiety. Some students lack basic reading and arithmetic skills. The organization of Prealgebra makes it easy to adapt the book to suit a variety of course syllabi.

**multiply and divide integers worksheet: New National Framework Mathematics 8+ Teacher Planning Pack** M. J. Tipler, 2014-11 Each lesson plan contains everything you will need to teach the course including Framework Objectives & Medium Term Planning references, resources needed, starter and plenary ideas and links to Homework activities. The pack also features mappings to the Framework for teaching mathematics and the Medium Term Plan, National Curriculum/Framework planning grids.

**multiply and divide integers worksheet:** Practice Makes Perfect Multiplication and Division Gary Robert Muschla, 2012-04-06 Helpful instruction and plenty of practice for your child to understand the basics of multiplication and division Understanding multiplying and dividing is essential for your child to do math problems with confidence. Practice Makes Perfect: Multiplication and Division gives your child bite-sized explanations of the subjects, with engaging exercises that keep her or him motivated and excited to learn. They can practice the problems they find challenging, polish skills they've mastered, and stretch themselves to explore skills they have not yet attempted. This book features exercises that increase in difficulty as your child proceeds through it. This book is appropriate for a 4th grade student working above his or her grade level, or as a great review and practice for a struggling 5th or 6th grader.

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and provide instruction that leads students to mastery and success. The exercises, along with the number of practice problems and group activities available, permit instructors to choose from a wealth of problems, allowing ample opportunity for students to practice what they learn in lecture to hone their skills. In this way, the book perfectly complements any learning platform, whether traditional lecture or distance-learning; its instruction is so reflective of what comes from lecture, that students will feel as comfortable outside of class as they do inside class with their instructor.

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**multiply and divide integers worksheet:** Math Phonics - Pre-Algebra (ENHANCED eBook) Marilyn B. Hein, 2004-03-01 Basic math skills to prepare them for algebra. Her fun methods and concrete examples will help younger students begin to grasp the principles of algebra before they actually have to deal with the complete course. Included are easy-to-understand explanations and instructions, wall charts, games, activity pages and worksheets. As in all her Math Phonics™ books, the author emphasizes three important principles: understanding, learning and mastery. Students will learn about integers, exponents and scientific notation, expressions, graphing, slope, binomials and trinomials. In addition to helpful math rules and facts, a complete answer key is provided. As students enjoy the quick tips and alternative techniques for math mastery, teachers will appreciate the easy-going approach to a difficult subject.

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**multiply and divide integers worksheet:** Cambridge Checkpoint Mathematics Coursebook 8 Greg Byrd, Lynn Byrd, Chris Pearce, 2012-11-15 Written by well-respected authors, the Cambridge Checkpoint Mathematics suite provides a comprehensive structured resource which covers the full Cambridge Secondary 1 Mathematics framework in three stages. This brightly illustrated Coursebook for Stage 8 offers a comprehensive introduction to all topics covered in the syllabus.

Worked examples show students how to tackle different problems, and plenty of exercise questions prepare students for the different types of questions they will face in their Progression test. Coverage of the Problem Solving framework is integrated throughout the course, with questions relating to the Problem Solving framework statements highlighted in the Coursebook. There is an accompanying Practice Book and Teacher's Resource CD-ROM available separately.

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**multiply and divide integers worksheet:** New Maths in Action S3/3 Teacher Resource Pack Doug Brown, 2004-06 This series offers complete coverage of Standard Grade targets, in a carefully considered order and is written by authors of New Maths in Action S1 and S2 to ensure progression from 5-14. There are three Teacher Resource Packs available for each year providing complete support for each of the Student Books.

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**multiply and divide integers worksheet:** *Key Maths 9/1 Teacher File- Revised* David Baker, Paul Hogan, Barbara Job, Irene Patricia Verity, 2014-11 Fully in-line with the Framework for Teaching Mathematics, this series provides coverage of the curriculum intended to enable students to revise and consolidate key concepts. Every chapter contains questions in the style of the National Tests. The three Ma1 tasks in every students book have detailed marking guidance in the equivalent teacher file to support key assessment at the end of the key stage. The last resource section of this file contains a series of summary activities for new or previously absent teachers or pupils, covering all the chapters. Additions such as question banks and ICT CD-ROMs are available to provide further support.

**multiply and divide integers worksheet:** *McGraw-Hill My Math, Grade 5* McGraw-Hill Companies, Inc., 2012-02-06 McGraw-Hill My Math develops conceptual understanding, computational proficiency, and mathematical literacy. Students will learn, practice, and apply mathematics toward becoming college and career ready.

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Equations and Inequalities Chapter 8: Analytic Geometry Chapter 9: Sequences, Probability and Counting Theory

**multiply and divide integers worksheet: Key Maths GCSE** Peter Sherran, 2002-09-10 This resource has been developed to provide additional support for delivering and supporting ICT at GCSE. Linked to Key Maths, it can be also be used together with other resources. Each program contains a range of self-contained activities that do not require a detailed understanding of the software.

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