

# Writing Algebraic Expressions Worksheet

Name: \_\_\_\_\_



Date: \_\_\_\_\_ Score: \_\_\_\_\_

## Translating Algebraic Expressions

Write an algebraic expression for each phrase.

- 1) Fifty-seven subtracted from  $z$  \_\_\_\_\_
- 2) The total of sixty and a number  $r$  \_\_\_\_\_
- 3) The product of  $x$  and twenty-two \_\_\_\_\_
- 4) The difference between eight and a smaller number  $x$  \_\_\_\_\_
- 5) Twenty-eight more than a number  $j$  \_\_\_\_\_
- 6) A number  $y$  raised to the power of 8 \_\_\_\_\_
- 7) The sum of the ratio of  $y$  to 5 and 4 \_\_\_\_\_
- 8) One-fourth of sum of  $x$  and 4 \_\_\_\_\_
- 9) Five times the difference between  $x$  and a smaller number 3 \_\_\_\_\_
- 10)  $p$  reduced by the quotient of 2 divided by 5 \_\_\_\_\_
- 11) Two-sixth of a number decreased by 7 \_\_\_\_\_
- 12) One-fourth of  $z$  subtracted from 19 \_\_\_\_\_

## Writing Algebraic Expressions Worksheet: Your Ultimate Guide to Mastering Algebra

Are you struggling to translate word problems into algebraic expressions? Do you find yourself confused by variables, constants, and operations? Then you've come to the right place! This comprehensive guide provides everything you need to conquer the art of writing algebraic expressions, complete with a downloadable worksheet to solidify your understanding. We'll break

down the concepts, provide examples, and offer practical tips to make learning algebraic expressions a breeze. Get ready to transform those confusing word problems into elegant mathematical statements!

What is an Algebraic Expression?

An algebraic expression is a mathematical phrase that combines numbers, variables, and operations (like addition, subtraction, multiplication, and division). Unlike an equation, which shows equality between two expressions (e.g.,  $2x + 5 = 11$ ), an algebraic expression doesn't contain an equals sign. It represents a value that can change depending on the value of the variable(s) involved.

## Understanding Key Components

Before diving into writing expressions, let's review the essential components:

**Variables:** These are letters (like  $x$ ,  $y$ ,  $z$ ) that represent unknown values or quantities. Think of them as placeholders.

**Constants:** These are fixed numerical values that don't change (e.g., 5, -3, 10).

**Operations:** These are the mathematical actions performed on variables and constants (+, -,  $\times$ ,  $\div$ ).

### #### Translating Words into Symbols: The Core of Writing Algebraic Expressions

The biggest hurdle for many students is translating word problems into algebraic expressions. Here's a breakdown of common words and their corresponding mathematical symbols:

**Addition (+):** sum, plus, added to, increased by, more than, total

**Subtraction (-):** difference, minus, subtracted from, decreased by, less than, fewer than (note the order of operations here is crucial!)

**Multiplication ( $\times$ ):** product, multiplied by, times, of (as in "half of  $x$ ")

**Division ( $\div$ ):** quotient, divided by, ratio

### Step-by-Step Guide to Writing Algebraic Expressions

Let's walk through some examples to illustrate the process:

1. Read carefully: Understand the problem thoroughly before attempting to write an expression.
2. Identify the variables: Determine what unknown quantities are involved and assign them variables.
3. Identify the operations: Determine the mathematical operations (addition, subtraction,

multiplication, division) described in the problem.

4. Write the expression: Combine the variables, constants, and operations to form the algebraic expression.

Example 1:

"Five more than a number  $x$ " translates to:  $x + 5$

Example 2:

"The product of 3 and a number  $y$ " translates to:  $3y$  (Note:  $3y$  means  $3 \times y$ )

Example 3:

"Seven less than twice a number  $z$ " translates to:  $2z - 7$  (Note the order!)

Example 4 (More Complex):

"The sum of a number  $x$  and its square, divided by 4" translates to:  $(x + x^2) / 4$

Downloadable Worksheet: Practice Makes Perfect!

To truly master writing algebraic expressions, practice is essential. [Here you would embed a downloadable PDF worksheet containing a variety of problems of varying difficulty. The worksheet should cover all the concepts discussed in the article]. This worksheet includes a range of exercises designed to challenge and improve your skills.

Common Mistakes to Avoid:

Order of operations: Remember PEMDAS (Parentheses, Exponents, Multiplication and Division, Addition and Subtraction).

Misinterpreting words: Pay close attention to the wording of the problem, especially words like "less than" which often require reversing the order of subtraction.

Forgetting variables: Make sure you've identified and included all the unknown quantities in your expression.

Conclusion:

Writing algebraic expressions might seem daunting at first, but with practice and a systematic approach, you'll become proficient in translating word problems into mathematical language. By understanding the key components, following the step-by-step guide, and utilizing the provided worksheet, you'll build the confidence and skills necessary to excel in algebra. Now, download your

worksheet and get started on your journey to algebraic mastery!

### Frequently Asked Questions (FAQs):

1. What is the difference between an algebraic expression and an equation? An algebraic expression is a mathematical phrase without an equals sign, while an equation uses an equals sign to show the equivalence of two expressions.
2. How do I handle "less than" and "more than" in word problems? "More than" means adding; "less than" means subtracting, but be careful about the order. "Five less than x" is  $x - 5$ , not  $5 - x$ .
3. Can I use different variables in the same expression? Absolutely! You can use as many variables as necessary to represent different unknown quantities.
4. What if the problem involves fractions or decimals? Treat fractions and decimals just like you would whole numbers; simply incorporate them into your expression.
5. Where can I find more practice problems? Many online resources and textbooks offer additional practice problems on writing algebraic expressions. Search for "algebraic expressions practice problems" to find suitable resources.

### **writing algebraic expressions worksheet: College Algebra** Jay Abramson, 2018-01-07

College Algebra provides a comprehensive exploration of algebraic principles and meets scope and sequence requirements for a typical introductory algebra course. The modular approach and richness of content ensure that the book meets the needs of a variety of courses. College Algebra offers a wealth of examples with detailed, conceptual explanations, building a strong foundation in the material before asking students to apply what they've learned. Coverage and Scope In determining the concepts, skills, and topics to cover, we engaged dozens of highly experienced instructors with a range of student audiences. The resulting scope and sequence proceeds logically while allowing for a significant amount of flexibility in instruction. Chapters 1 and 2 provide both a review and foundation for study of Functions that begins in Chapter 3. The authors recognize that while some institutions may find this material a prerequisite, other institutions have told us that they have a cohort that need the prerequisite skills built into the course. Chapter 1: Prerequisites Chapter 2: Equations and Inequalities Chapters 3-6: The Algebraic Functions Chapter 3: Functions Chapter 4: Linear Functions Chapter 5: Polynomial and Rational Functions Chapter 6: Exponential and Logarithm Functions Chapters 7-9: Further Study in College Algebra Chapter 7: Systems of Equations and Inequalities Chapter 8: Analytic Geometry Chapter 9: Sequences, Probability and Counting Theory

### **writing algebraic expressions worksheet: Word Problems, Grade 7** , 2013-12-02 Spectrum(R)

Word Problems for grade 7 includes practice for essential math skills, such as real world applications, multi-step word problems, variables, ratio and proportion, perimeter, area and volume, percents, statistics and more. Spectrum(R) Word Problems supplement to classroom work and proficiency test preparation. The series provides examples of how the math skills students learn in school apply to everyday life with challenging, multi-step word problems. It features practice with word problems that are an essential part of the Common Core State Standards. Word problem practice is provided for essential math skills, such as fractions, decimals, percents, metric and customary measurement, graphs and probability, and preparing for algebra and more.

### **writing algebraic expressions 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.

**writing algebraic expressions worksheet:** Acing the New SAT Math Thomas Hyun, 2016-05-01 SAT MATH TEST BOOK

**writing algebraic expressions worksheet:** *411 SAT Algebra and Geometry Questions*, 2006 In order to align the SAT with the math curriculum taught in high schools, the SAT exam has been expanded to include Algebra II materials. 411 SAT Algebra and Geometry Questions is created to offer you a rigorous preparation for this vital section. If you are planning to take the SAT and need extra practice and a more in-depth review of the Math section, here's everything you need to get started. 411 SAT Algebra and Geometry Questions is an imperative study tool tailored to help you achieve your full test-taking potential. The most common math skills that you will encounter on the math portion of the SAT are covered in this book. Increase your algebra and geometry skills with proven techniques and test your grasp of these techniques as you complete 411 practice questions, including a pre- and posttest. Follow up by reviewing our comprehensive answer explanations, which will help measure your overall improvement. The questions are progressively more difficult as you work through each set. If you can handle the last question on each set, you are ready for the SAT! Book jacket.

**writing algebraic expressions worksheet:** *A First Book in Algebra* Wallace Clarke Boyden, 1894

**writing algebraic expressions 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.

**writing algebraic expressions worksheet:** *Algebra Teacher's Activities Kit* Judith A. Muschla, Gary R. Muschla, Erin Muschla-Berry, 2015-11-30 Help your students succeed with classroom-ready, standards-based activities The Algebra Teacher's Activities Kit: 150 Activities That Support Algebra in the Common Core Math Standards helps you bring the standards into your algebra classroom with a range of engaging activities that reinforce fundamental algebra skills. This newly updated second edition is formatted for easy implementation, with teaching notes and answers followed by reproducibles for activities covering the algebra standards for grades 6 through 12. Coverage includes whole numbers, variables, equations, inequalities, graphing, polynomials, factoring, logarithmic functions, statistics, and more, and gives you the material you need to reach students of various abilities and learning styles. Many of these activities are self-correcting, adding interest for students and saving you time. This book provides dozens of activities that Directly address each Common Core algebra standard Engage students and get them excited about math Are tailored to a diverse range of levels and abilities Reinforce fundamental skills and demonstrate everyday

relevance Algebra lays the groundwork for every math class that comes after it, so it's crucial that students master the material and gain confidence in their abilities. The Algebra Teacher's Activities Kit helps you face the challenge, well-armed with effective activities that help students become successful in algebra class and beyond.

**writing algebraic expressions worksheet: 501 Algebra Questions** , 2006 Reviews the concepts and properties of math and algebra, including integers, algebraic expressions, graphing, solving equations, and working with formulas, exponents, polynomials, factoring, quadratic equations, and radicals.

**writing algebraic expressions worksheet: Intermediate Algebra 2e** Lynn Marecek, MaryAnne Anthony-Smith, Andrea Honeycutt Mathis, 2020-05-06

**writing algebraic expressions worksheet: Pre-Algebra, Grades 5-8** Mary Lee Vivian, Margaret Thomas, 2003 A top-selling teacher resource line, The 100+ Series(TM) features over 100 reproducible activities in each book! --This revised edition of Pre-Algebra links all the activities to the NCTM Standards. The activities were designed to provide students with practice in the skill areas necessary to master the concepts introduced in a course of pre-algebra. Reinforcing operations skills with both decimals and fractions plus activities involving ratios, integers, proportions, percents, rational numbers, simple equations, plotting coordinates, and graphing linear equations are all part of this new edition. Examples of solution methods are presented at the top of each page. New puzzles and riddles have been added to gauge the success of skills learned. It also contains a complete answer key.

**writing algebraic expressions worksheet: Common Core Algebra I** Kirk Weiler, Garrett Matula, 2015-08-01

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**writing algebraic expressions worksheet: CLEP** , 2012 REA's CLEP test preps are perfect for adults returning to college or attending for the first time, military service members, high-school graduates looking to earn college credit, or home-schooled students with knowledge that can translate into college credit. /Our review covers all the College Algebra topics found on the official exam: sets, number systems and operations, exponents and radicals, equations, inequalities, ratio and proportion, and more. /Students start their study by taking our half-length diagnostic practice test online. This timed test includes automatic scoring and diagnostic feedback, so students can pinpoint their strengths and weaknesses. The book includes 2 full-length practice tests that mirror the actual exam, allowing test-takers to become familiar with the test format before taking the CLEP. Each practice test comes with detailed explanations of answers, so students can identify areas in need of improvement and be prepared on test day.

**writing algebraic expressions worksheet: Grade 6 Word Problems** Kumon Publishing, 2009-06 This workbook will introduce your child to word problems dealing with adding, subtracting, multiplying and dividing fractions with unlike denominators, as well as working with the concepts of ratio, average, speed and proportion.--Cover.

**writing algebraic expressions worksheet: The Algebra Teacher's Guide to Reteaching Essential Concepts and Skills** Judith A. Muschla, Gary R. Muschla, Erin Muschla, 2011-10-25 Easy to apply lessons for reteaching difficult algebra concepts Many students have trouble grasping algebra. In this book, bestselling authors Judith, Gary, and Erin Muschla offer help for math teachers who must instruct their students (even those who are struggling) about the complexities of algebra. In simple terms, the authors outline 150 classroom-tested lessons, focused on those concepts often most difficult to understand, in terms that are designed to help all students unravel the mysteries of algebra. Also included are reproducible worksheets that will assist teachers in reviewing and

reinforcing algebra concepts and key skills. Filled with classroom-ready algebra lessons designed for students at all levels The 150 mini-lessons can be tailored to a whole class, small groups, or individual students who are having trouble This practical, hands-on resource will help ensure that students really get the algebra they are learning

**writing algebraic expressions worksheet: Advanced Algebra** Anthony W. Knapp, 2007-10-11 Basic Algebra and Advanced Algebra systematically develop concepts and tools in algebra that are vital to every mathematician, whether pure or applied, aspiring or established. Advanced Algebra includes chapters on modern algebra which treat various topics in commutative and noncommutative algebra and provide introductions to the theory of associative algebras, homological algebras, algebraic number theory, and algebraic geometry. Many examples and hundreds of problems are included, along with hints or complete solutions for most of the problems. Together the two books give the reader a global view of algebra and its role in mathematics as a whole.

**writing algebraic expressions worksheet: Which One Doesn't Belong?** Christopher Danielson, 2019-02-12 Talking math with your child is simple and even entertaining with this better approach to shapes! Written by a celebrated math educator, this innovative inquiry encourages critical thinking and sparks memorable mathematical conversations. Children and their parents answer the same question about each set of four shapes: Which one doesn't belong? There's no one right answer--the important thing is to have a reason why. Kids might describe the shapes as squished, smooshed, dented, or even goofy. But when they justify their thinking, they're talking math! Winner of the Mathical Book Prize for books that inspire children to see math all around them. This is one shape book that will both challenge readers' thinking and encourage them to think outside the box.--Kirkus Reviews, STARRED review

**writing algebraic expressions worksheet: Working with Algebra Tiles** Don Balka, Laurie Boswell, 2006-01-01 A complete resource for using algebra tiles to help students visualize algebra, build and solve equations, and gain comfort and skill with algebraic expressions. Teacher's notes and reproducible activities cover integer operations, linear expressions, quadratic expressions, perimeter, arrays, binomials and more. Each topic progresses through objective prerequisites, getting started and closing the activity. -- (p.4) of cover.

**writing algebraic expressions worksheet: Math Makes Sense 7** Ray Appel, 2016

**writing algebraic expressions worksheet: Key Maths 7/2** David Baker, 2000 These resources provide invaluable support within the Key Maths series for all mathematics teachers, whether specialists or non-specialist, experienced or new to the profession.

**writing algebraic expressions worksheet: New National Framework Mathematics 9 Core Teacher Planning Pack** M. J. Tipler, 2014-11 New National Framework Mathematics features extensive teacher support materials which include dedicated resources to support each Core and Plus Book. The 9 Core Teacher Planning Pack contains Teacher Notes for every chapter with a 'Self-contained lesson plan' for each of the units in the pupil books.

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**writing algebraic expressions worksheet: Algebra and Trigonometry** Jay P. Abramson, Valeree Falduto, Rachael Gross (Mathematics teacher), David Lippman, Rick Norwood, Melonie Rasmussen, Nicholas Belloit, Jean-Marie Magnier, Harold Whipple, Christina Fernandez, 2015-02-13 The text is suitable for a typical introductory algebra course, and was developed to be used flexibly. While the breadth of topics may go beyond what an instructor would cover, the modular approach and the richness of content ensures that the book meets the needs of a variety of programs.--Page 1.

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**writing algebraic expressions worksheet: Elementary Algebra** Katherine Yoshiwara, Bruce Yoshiwara, Irving Drooyan, 1999-09-08 Yoshiwara's ELEMENTARY ALGEBRA was written with two goals in mind: to present the skills of algebra in the context of modeling and problem solving; and to engage students as active participants in the process of learning. The text begins with a study of tables and graphs, and the concept of the variable is developed from that platform. Graphs are used extensively throughout the book to illustrate algebraic technique and to help students visualize relationships between variables. This book ultimately builds an intuitive framework for the later study of functions, thus giving students the skills they need to be successful in future math courses.

**writing algebraic expressions worksheet: Algebraic Curves** William Fulton, 2008 The aim of these notes is to develop the theory of algebraic curves from the viewpoint of modern algebraic geometry, but without excessive prerequisites. We have assumed that the reader is familiar with some basic properties of rings, ideals and polynomials, such as is often covered in a one-semester course in modern algebra; additional commutative algebra is developed in later sections.

**writing algebraic expressions worksheet: How to Solve Algebra Word Problems** William A. Nardi, 1991

**writing algebraic expressions worksheet: Active Learning in the Mathematics Classroom, Grades 5-8** Hope Martin, 2007-02-26 Deepen students' understanding of math concepts through active involvement! Engaging students directly in creative learning experiences is the basis of author Hope Martin's approach for re-energizing mathematics instruction. Active Learning in the Mathematics Classroom, Grades 5-8, Second Edition offers attention-grabbers such as Algebra Jokes, The M&M Mystery, How Long Would It Take to Walk to China?, and Gummi Worms to help students use mathematics as a powerful problem-solving tool, gain meaningful understandings of key concepts, and effectively communicate their mathematical thinking. Presenting a generous collection of student activities aligned with the five NCTM content standards, this revised edition of Multiple Intelligences in the Mathematics Classroom features A new chapter addressing algebra concepts Reproducible student pages for each activity Journaling questions to engage students in writing about mathematics Specific Web site resources With step-by-step directions, suggestions, tips, and variations for implementation, this updated text provides a rich instructional resource for teachers, mathematics specialists, and curriculum directors.

**writing algebraic expressions worksheet: Fundamentals of Mathematics** Denny Burzynski, Wade Ellis, 2008 Fundamentals of Mathematics is a work text that covers the traditional



study in a modern prealgebra course, as well as the topics of estimation, elementary analytic geometry, and introductory algebra. It is intended for students who: have had previous courses in prealgebra wish to meet the prerequisites of higher level courses such as elementary algebra need to review fundamental mathematical concepts and techniques This text will help the student develop the insight and intuition necessary to master arithmetic techniques and manipulative skills. It was written with the following main objectives: to provide the student with an understandable and usable source of information to provide the student with the maximum opportunity to see that arithmetic concepts and techniques are logically based to instill in the student the understanding and intuitive skills necessary to know how and when to use particular arithmetic concepts in subsequent material courses and nonclassroom situations to give the students the ability to correctly interpret arithmetically obtained results We have tried to meet these objects by presenting material dynamically much the way an instructor might present the material visually in a classroom. (See the development of the concept of addition and subtraction of fractions in section 5.3 for examples) Intuition and understanding are some of the keys to creative thinking, we believe that the material presented in this text will help students realize that mathematics is a creative subject.

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**writing algebraic expressions worksheet: The Mathematics Lesson-Planning Handbook, Grades 6-8** Lois A. Williams, Beth McCord Kobett, Ruth Harbin Miles, 2018-12-28 Your blueprint to planning Grades 6-8 math lessons that lead to achievement for all learners When it comes to planning mathematics lessons, do you sometimes feel burdened? Have you ever scrambled for an activity to engage your students that aligns with your state standards? Do you ever look at a recommended mathematics lesson plan and think, This will never work for my students? The Mathematics Lesson-Planning Handbook: Your Blueprint for Building Cohesive Lessons, Grades 6-8 walks you step by step through the process of planning focused, research-based mathematics lessons that enhance the coherence, rigor, and purpose of state standards and address the unique learning needs of your individual students. This resource deepens the daily lesson-planning process for middle school teachers and offers practical guidance for merging routines, resources, and effective teaching techniques into an individualized and manageable set of lesson plans. The effective planning process helps you Identify learning intentions and connect goals to success criteria Select resources and worthwhile tasks that make the best use of instructional materials Structure lessons differently for traditional and block middle school schedules Anticipate student misconceptions and evaluate understanding using a variety of formative assessment techniques

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