

algebra simplify expressions worksheets

Algebra Simplify Expressions Worksheets: A Journey from Frustration to Fluency

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Introduction:

The seemingly innocuous phrase "algebra simplify expressions worksheets" often evokes a mixed response from students. For some, it's a source of quiet confidence, a chance to flex their burgeoning mathematical muscles. For others, it's a trigger for anxiety, a reminder of frustrating struggles with variables, parentheses, and the seemingly endless rules of simplification. This article delves into the world of "algebra simplify expressions worksheets," exploring their crucial role in mathematics education, sharing personal anecdotes, and providing practical strategies to navigate the sometimes-challenging path to algebraic fluency.

H1: The Importance of Algebra Simplify Expressions Worksheets

"Algebra simplify expressions worksheets" are not mere exercises; they are essential tools in developing a deep understanding of algebraic concepts. They provide targeted practice, reinforcing skills learned in the classroom and allowing students to build confidence through repetition and immediate feedback. These worksheets act as a bridge between theoretical understanding and practical application, solidifying fundamental algebraic manipulations, a crucial foundation for more advanced mathematical concepts.

H2: Case Study 1: The Struggling Student

I remember one particular student, Michael, a bright young man who struggled immensely with algebra. His frustration with "algebra simplify expressions worksheets" was palpable. He'd get bogged down in the details, making careless errors and losing sight of the overall goal. Through targeted intervention, focusing on breaking down complex problems into smaller, manageable steps using specifically designed "algebra simplify expressions worksheets," we gradually built his confidence. We started with simple expressions, gradually increasing the complexity, providing him with immediate feedback and tailored support. The improvement was dramatic. By the end of the term, Michael was not only confidently tackling "algebra simplify expressions worksheets" but actively seeking out additional challenges.

H2: Case Study 2: The Confident Learner

Conversely, Sarah, another student, approached "algebra simplify expressions worksheets" with enthusiasm. She excelled, quickly grasping the concepts and effortlessly navigating complex expressions. However, even for Sarah, the structured practice offered by the worksheets was beneficial. They allowed her to refine her techniques, improve her speed and accuracy, and explore more challenging problems. The worksheets provided a platform for her to consolidate her understanding and push her mathematical boundaries.

H2: Personal Anecdotes: My Experience with Algebra Simplify Expressions Worksheets

My own journey with mathematics deeply involved "algebra simplify expressions worksheets." As a student, I found them immensely helpful in solidifying my understanding of algebraic manipulation. The repetitive nature of the exercises ingrained the rules in my memory, enabling me to apply them effectively in more complex scenarios. Later, as a teacher, I witnessed firsthand the transformative power of well-designed "algebra simplify expressions worksheets" in boosting student confidence and fostering a deeper understanding of algebra.

H2: Designing Effective Algebra Simplify Expressions Worksheets

The effectiveness of "algebra simplify expressions worksheets" hinges on their design. A well-designed worksheet should incorporate a variety of question types, progressing gradually in complexity, and providing ample opportunities for practice and immediate feedback. The worksheets should also include clear instructions, well-structured problems, and sufficient space for working out solutions. The use of different representation methods, such as diagrams and visual aids, can enhance understanding and make the learning process more engaging.

H2: Overcoming Common Challenges with Algebra Simplify Expressions Worksheets

Many students struggle with specific aspects of simplifying algebraic expressions. Common challenges include combining like terms, dealing with parentheses, and understanding the order of operations (PEMDAS/BODMAS). Addressing these challenges requires a multi-pronged approach, incorporating targeted practice through carefully selected "algebra simplify expressions worksheets," clear explanations, and focused tutoring.

H2: Resources and Further Support for Algebra Simplify Expressions Worksheets

Numerous online resources are available to support students' work with "algebra simplify expressions worksheets." Interactive online platforms offer instant feedback, allowing students to identify and correct errors immediately. Online tutorials and videos can provide further explanations and support, clarifying challenging concepts.

Conclusion:

"Algebra simplify expressions worksheets" are an indispensable tool in the learning of algebra. Their effective use, coupled with targeted instruction and appropriate support, can transform students' understanding of algebraic concepts, from initial frustration to confident mastery. The key lies in selecting well-designed worksheets, providing adequate support, and fostering a positive learning environment.

FAQs:

1. What are the key concepts covered in algebra simplify expressions worksheets? These worksheets typically cover combining like terms, applying the distributive property, working with parentheses, and understanding the order of operations.
1. How can I find free algebra simplify expressions worksheets? Many websites offer free printable worksheets; search online for "free algebra simplify expressions worksheets."
1. Are algebra simplify expressions worksheets suitable for all learning styles? While worksheets are a valuable tool, they may not be ideal for all learning styles. Consider supplementing them with other methods like videos or interactive exercises.

1. How can I use algebra simplify expressions worksheets effectively? Start with simpler expressions and gradually increase the complexity. Provide immediate feedback and address any misconceptions promptly.

1. What if my child struggles with algebra simplify expressions worksheets? Seek additional help from their teacher, tutor, or use online resources. Break down the problems into smaller, more manageable parts.

1. What is the difference between simplifying expressions and solving equations? Simplifying expressions involves manipulating the expression to make it simpler; solving equations involves finding the value of the variable that makes the equation true.

1. How do I know if my child is ready for algebra simplify expressions worksheets? They should have a solid understanding of basic arithmetic and pre-algebra concepts.

1. Are there different types of algebra simplify expressions worksheets? Yes, worksheets vary in difficulty and focus, catering to different grade levels and skill sets.

1. Can algebra simplify expressions worksheets be used for self-teaching? Yes, with discipline and access to additional resources, worksheets can be a valuable self-teaching tool.

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algebra simplify expressions worksheets: Algebra II Exercise Book Reza Nazari, Ava Ross, 2019-04-25 This Algebra workbook's new edition has been updated to replicate questions appearing on the most recent Algebra II test. Here is intensive preparation for the Algebra II course, and a precious learning tool for Algebra takers who need extra practice in math to raise their Algebra II scores. After completing this workbook, you will have solid foundation and adequate practice that is necessary to ace the Algebra II Test. This workbook is your ticket to score higher on Algebra II test. The updated version of this hands-on workbook represents extensive exercises, math problems, sample Algebra II questions, and quizzes with answers and detailed solutions to help you hone your math skills, overcome your exam anxiety, and boost your confidence -- and do your best to defeat Algebra II exam on test day. Each of math exercises is answered in the book which will help you find your weak areas and raise your scores. This is a unique and perfect practice book to beat the Algebra II Test. Separate math chapters offer a complete review of the Algebra course, including: Equations and Inequalities Quadratic Functions and System of Equations Polynomial Operations Functions and their applications Imaginary Numbers Matrices and Matrix Equations Exponential and Logarithmic Functions Trigonometric Functions ... and many more Algebra II topics The surest way to succeed on Algebra II is with intensive practice in every math topic tested--and that's what you will get in Algebra II Exercise Book. Each chapter of this focused format has a comprehensive review created by Math experts that goes into detail to cover all of the content likely to appear on the Algebra II test. Effortless Math Workbook for the Algebra II contains many exciting and unique features to help you improve your Algebra scores, including: Content 100% aligned with the Algebra II courses Written by experienced Math tutors and test experts Complete coverage of all Algebra II concepts and topics which you will be tested Over 2,500 additional Algebra II math practice questions in both multiple-choice and grid-in formats with answers grouped by topic, so you can focus on your weak areas Abundant Math skill building exercises to help you approach different question types that might be unfamiliar to you Exercises on different Algebra II topics such as equations, polynomials, exponents and radicals, functions, etc. This Algebra II Workbook and other Effortless Math Education books are used by thousands of students each year to help them review core content areas, brush-up in math, discover their strengths and weaknesses, and achieve their best scores on the Algebra test. Get ready for the Algebra II Test with a PERFECT Workbook! Published By: Effortless Math Education www.EffortlessMath.com

algebra simplify expressions worksheets: Middle School Math with Pizzazz!: E. Ratio and proportion; Percent; Statistics and graphs; Probability; Integers; Coordinate graphing; Equations Steve Marcy, 1989

Additional Resources

Algebra - Wikipedia

Elementary algebra, also called school algebra, college algebra, and classical algebra, [22] is the oldest and most basic form of algebra. It is a generalization of arithmetic that relies on ...

Introduction to Algebra - Math is Fun

Algebra is just like a puzzle where we start with something like " $x - 2 = 4$ " and we want to end up with something like " $x = 6$ ". But instead of saying "obviously $x=6$ ", use this neat step-by-step ...

Algebra I - Khan Academy

The Algebra 1 course, often taught in the 9th grade, covers Linear equations, inequalities, functions, and graphs; Systems of equations and inequalities;

Extension of the concept of a ...

Algebra | History, Definition, & Facts | Britannica

May 9, 2025 · Algebra is the branch of mathematics in which abstract symbols, rather than numbers, are manipulated or operated with arithmetic. For example, $x + y = z$ or $b - 2 = 5$ are ...

Algebra - What is Algebra? | Basic Algebra | Definition - Cuemath

Algebra is the branch of mathematics that represents problems in the form of mathematical expressions. It involves variables like x , y , z , and mathematical operations like addition, ...

How to Understand Algebra (with Pictures) - wikiHow

Mar 18, 2025 · Algebra is a system of manipulating numbers and operations to try to solve problems. When you learn algebra, you will learn the rules to follow for solving problems. But ...

What is Algebra? - BYJU'S

Algebra is one of the oldest branches in the history of mathematics that deals with number theory, geometry, and analysis. The definition of algebra sometimes states that the study of the ...

Algebra in Math - Definition, Branches, Basics and Examples

Apr 7, 2025 · This section covers key algebra concepts, including expressions, equations, operations, and methods for solving linear and quadratic equations, along with polynomials ...

Algebra - Simple English Wikipedia, the free encyclopedia

People who do algebra use the rules of numbers and mathematical operations used on numbers. The simplest are adding, subtracting, multiplying, and dividing. More advanced operations ...

OpenAlgebra.com: Free Algebra Study Guide & Video Tutorials

Free algebra tutorial and help. Notes, videos, steps. Solve and simplify linear, quadratic, polynomial, and rational expressions and equations.

Grade 5 Pre-Algebra Worksheet - K5 Learning

Title: Simplifying expressions Author: K5 Learning Subject: Pre-Algebra Worksheet Keywords: math, pre-algebra, simplifying expressions, algebra, combine, like terms

Multiplying Rational Expressions - Kuta Software

Multiplying Rational Expressions Date_____ Period_____ Simplify each expression. 1) $59n^{99} \cdot 8033n^2$ 2) $5343 \cdot 46n^231$ 3) $9321n \cdot 34n51n$ 4) $79n^{25} \cdot 8527n^2$ 5) $9638n$... Create your ...

10.1 Simplifying Radical Expressions - Big Ideas Learning

380 Chapter 10 Solving Quadratic Equations 10.1 Lesson What You Will Learn Use properties of radicals to simplify expressions. Perform operations with radicals. Using Properties of Radicals ...

LQJ H[SUHVVLQRV - K5 Learning

5hdglqj dqg 0dwk iru . zzz n ohduqlqj frp 6lpsoli\lqj h[suhvvlrqv *udgh 3uh \$ojheud :runvkhwh \$ 5hzulwh hdfk h[suhvvlrq dqg wkhq hydoxdwh lw iru [

Algebra 2 Worksheets

Algebra 2 Worksheets Basics Order of operations Evaluating expressions Simplifying algebraic expressions Linear Relations and Functions Review of linear equations Graphing absolute ...

Simplifying Radical Expressions - Effortless Math

Math Worksheets Name: _____ Date: _____ ... So Much More Online! Please visit: www.EffortlessMath.com Answers Simplifying radical expressions 1) $12\sqrt{35}$ $\sqrt{2}$ 3) $\sqrt{10}$ 3) $\sqrt{23}$...

Simplifying Complex Rational Expressions Date Period

Algebra 2 - 6.4 Name _____ Date _____ Period _____ ©E l2F0q1 C3F TK8u0tEab 8S yo gf8t Sw 6aurQeX YLCL XCL.g K yA MlFli zr pi jg Nhkt2sX Lr Feasre 9r kvCe Jd J.e Simplifying ...

Simplifying Radical Expressions - Mr. Gee's Math Page

Simplify the radicals. Make a prime factorization tree of the values inside the radican. Apply the Rules of Math Poker. 1) $294x^3$ 2) $80x^3$ 3) $448x$ 4) $75m^3$ 5) $12m$ 6) $252b$ 7) $32x^4$ 8) $80r^2$ 9) ...

Simplifying Negative Exponents and Variables - Math Plane

simplify the variable substitute simplify each variable and the numbers 1024 d) $3 \times 3Y^3$ 2 $25xy$ z c) ... Algebra L. Friedman #83 4 26-13 (contributor: A _ Rossen) www.mathplane.com ... Alex ...

Adding and Subtracting Polynomials Date Period - Kuta ...

Simplify each expression. 1) $(5p^2 - 3)$... Kuta Software - Infinite Algebra 1 Name _____ Adding and Subtracting Polynomials Date _____ Period _____ ... Create your own worksheets like this ...

Adding and Subtracting Radical Expressions Date Period

Kuta Software - Infinite Algebra 1 Name _____ Adding and Subtracting Radical Expressions Date _____ Period _____ ... Simplify. 1) ... Create your own worksheets like this one with Infinite ...

Basic Polynomial Operations Date Period - Kuta Software

1. Simplify: $(a + b)(c + d)$ $ac + ad + bc + bd$ 25) Simplify and then classify by degree and number of terms: $2x + 3x^2(4x - 5)$ $12x^3 - 15x^2 + 2x$; Cubic trinomial-2-Create your own worksheets ...

Simplify Algebraic Expressions - Matching Puzzle Worksheet ...

SIMPLIFY ALGEBRAIC EXPRESSIONS MATCHING PUZZLE . Use Index Notation Laws to simplify and then match these algebraic expressions. A $a^2 \times a^3 \times a^6$ S $a^3 + 2a^5$ B $a^4 \times a^5$...

Practice Worksheet: Properties of Exponents

Simplify each expression completely using properties of exponents. Answers should have positive exponents only and all numbers evaluated, for example $5^3=125$. Each set of problems will use ...

Worksheet 8: Algebraic Expressions (Term 2) Grade 8 ...

Worksheet 8: Algebraic Expressions (Term 2) Grade 8 Mathematics 1. Identify the constants in each of these expressions: a) $3 \cdot 2 + 5 + 6 - 7$ b) $56 + 82 \cdot 2 - 13 - 15$
2. Identify the variables in each ...

Review Sheet: Rational Expressions Date - University of New ...

©j LKJuPtVaV rS3ojfItjw MaJr0eN ULELaCS.5 y SANlblB TrjiCgQhstks0 lr
1e5sWeCrCvUemd6.c N CMWamdIec lwIiVt6he BILn7fDiln EihtIer AABlmgJeNbrXax
3lp.N-5-Worksheet by Kuta ...

1-Simplifying Square Roots - Kuta Software

Simplify. 1) 96 2) 216 3) 98 4) 18 5) 72 6) 144 7) 45 8) 175 9) 343 10) 12
11) 10 96 12) 9 245-1- ©J 52e0 Jlw1L oKGu7t 5ay YSWojf AtgwCaHrزه cL HLVCj.2
h WAWlhl F Nr9iZgPh ktGsM ...

Homework #9-1: Rational Exponents - Denton ISD

Pre-AP Algebra 2 Name: _____ 9-1 Pair Work Practice with Rational Exponents
1) Rewrite each radical using rational exponent notation. a. $3 \cdot 7 \cdot 5$ b. $11 \cdot x$ c.
4 8 2) Rewrite each power using ...

MATHLINKS: GRADE 7 STUDENT PACKET 8 EXPLORING ...

8.1 Equivalent Expressions • Write, evaluate, and simplify expressions. •
Describe geometric patterns numerically, pictorially, symbolically, and
verbally. • Interpret expressions in terms of ...

Worksheet 2 6 Factorizing Algebraic Expressions - Macquarie ...

Worksheet 2:6 Factorizing Algebraic Expressions Section 1 Finding Factors
Factorizing algebraic expressions is a way of turning a sum of terms into a
product of smaller ones. The product is a ...

SIMPLIFYING EXPRESSIONS #4 Directions

Name _____ SIMPLIFYING EXPRESSIONS #4. Directions: Simplify each of the
expressions below. Show your work and write your final answer in the line
provided. Examples: $5 \cdot 7$

I Rational Expression Worksheet #2: Simplifying - Mr.

Simplify. Remember to factor if necessary $28x^3$ I. $35x^5$ 4. $x^2 + 12x + 20$ $3x + 6$
 $5x - 15$ 7. $x^2 - 3x - 16x^2/z$... Add or subtract these rational expressions. Show
your common denominators and ...

12.1 Simplifying Radicals - Algebra

Write your questions here! [11.1: SIMPLIFYING RADICALS2]! 4. $-4 \cdot 300$ 5. $2 \cdot 18$
6. $10 \cdot 108$ 7. 33 8. -1000 9. -26 Quick Review: Solve the quadratic equations
using the given method. 1. Solve ...

WorkSHEET 3.2 Simplifying algebraic expressions Name:

3 Simplify the following expressions by collecting like terms. (a) $3q - 2q$
(b) $5x + 6x - 3x$ (c) $18p - 20p$ (d) $12x + 8y - 7x + 3y$ (a) q (b) $8x$ (c) $-2p$ (d) $12x - 7x + 8y + 3y = 5x + 11y$ 4 Simplify the ...

Extra Practice Rational Exponents & Radical Expressions

Algebra 2 Extra Practice Rational Exponents & Radical Expressions Name _____

ID: 1 ©e Y2d0T107J RK`uPtvaN hScoAfstAwoaBrpeL zLTLoCX._ d KAYl_lZ

UrLiFgPh]tesX ...

Way Cool Algebra Period ____ Name _____ ...

Way Two Cool Algebra Expressions – Logarithms Logarithms A) Evaluate each Logarithm Expression without a calculator. 1 $\log 7$ 49 2 $\log 3$ 27 3 $10^1 \log$ 10 4 16 1 $\log 2$ 5 $\log 16$ 4 1 6 ...

Algebra 1 Worksheet: Polynomials & Like Terms Sept. 14, ...

Algebra 1 Worksheet: Polynomials & Like Terms Sept. 14, 2012 1. Answer the questions or identify the specified parts of the polynomial: ... Simplify each of these polynomial expressions ...

Year 7 Algebraic Techniques 1 - Dobmaths

11 Simplify $4a \times 2b \times 3c$, giving your final answer without multiplication signs. 12 Simplify $3w \times 4w$. 13 Write $(2a + 1) \div 3$ without a division sign. 14 Simplify the expression $8ab$ 12b 15 ...

Adding and Subtracting Radical Expressions - Effortless Math

Adding and Subtracting Radical Expressions Simplify. 1) $\sqrt{3} + \sqrt{27} =$ 2) $\sqrt{38} + 3\sqrt{2} = \sqrt{\dots}$ Math Worksheets Name: _____ Date: _____ ... So Much More Online! Please visit: ...

Algebraic Order of Operations - Maths Panda

Algebraic Order of Operations Example Simplify Multiplication first: Addition second: Simplify these expressions 1. 2.

Using the Distributive Property Date Period - Kuta Software

Simplify each expression. 1) $-6(a + 8)$ 2) $4(1 + 9x)$... Kuta Software - Infinite Algebra 1 Name _____ Using the Distributive Property Date _____ Period _____ ... Create your own ...

Simplifying Terms (Multiplying and Dividing) - Holly Lodge ...

When we multiply algebraic expressions, combine the numbers first, then the letters. For example: $4a \times 7w$ $4 \times 7 = 28$ $a \times w = aw$ Answer = $28aw$ When we divide algebraic expressions, divide ...

Name: GCSE (1 – 9) Expanding and Factorising - Maths Genie

GCSE (1 – 9) Expanding and Factorising Name: _____ Instructions • Use black ink or ball-point pen. • Answer all Questions. • Answer the Questions in the spaces provided

Simplifying RATIONAL EXPRESSIONS - All Things Algebra®

RATIONAL EXPRESSIONS (bud/ Simplify: $4x^2 - 9$ RATIONAL EXPRESSIONS Scavenger Hunt Date: Directions: use your answers to determine which problem to goto

next Be sure to write ...

Dividing Rational Expressions - Kuta Software

Kuta Software - Infinite Algebra 1 Name_____ Dividing Rational Expressions
Date_____ Period_____ Simplify each expression. 1) $10n^9 \div 13n^2$ 2) ...
Create your own worksheets ...

Section 7.3 ~ Multiplication Properties of Exponents Packet

Write each expression without using an exponent. (expand the expression, do not simplify) 4. $3^4 \cdot 5$ 5. xy^5 6. $75ab$ You have seen that exponential expressions are useful when writing very ...

Adding+Subtracting Rational Expressions - Kuta Software

Kuta Software - Infinite Algebra 1 Name_____ Adding + Subtracting Rational Expressions
Date_____ Period_____ Simplify each expression. 1) $u + 5v$ 2) $8v^2u^2 - u - 6v$ 3) $8v^2u^2 + 11$ 4) $8vu^2$ 5) ...

Simplifying expressions - K5 Learning

Grade 5 Pre-Algebra Worksheet A. Rewrite each expression and then evaluate it for $x = 3$. 1. $9x - 3x - 10 = 6x - 10 = 8$ 6. $9x - 2x + 8 - 3 = 7x + 5 = 26$

7.3 Simplify Complex Rational Expressions - University of ...

Aug 7, 2018 · Simplify the complex rational expression by using the LCD: $\frac{1}{a} + \frac{1}{b} = \frac{a+b}{ab}$. TRY IT : $\frac{1}{x^2} - \frac{1}{y^2} = \frac{y^2 - x^2}{x^2 y^2}$. Be ...

High School Algebra II Worksheet Bundle - Edmentum

Algebra II: Interpret Expressions . 1. Jacob is the booking agent for a popular band. He has found that when he sells each ticket to a concert by the band for \$72, the average attendance for the ...

Section 1.6 Notes Order of Operations & Evaluate Expressions

Simplify each expression below using the order of operations. (a) $\frac{1}{2} + \frac{1}{4} \pm y$ (b) y (c) y (d) $\frac{1}{14} \cdot \frac{32}{8} \cdot \frac{4}{4}$ Fraction bars, radical symbols, and absolute value symbols can also be used as grouping ...

6.3 Simplifying Complex Fractions - DR. POLLONE'S WEBSITE

Simplify. c. First simplify the numerator and the denominator of the complex fraction separately so that each is a single fraction. Then perform the indicated division. $\frac{x^2 + 1}{y} \div \frac{y}{x^2 + 1} = \frac{x^2 + 1}{y} \cdot \frac{x^2 + 1}{y} = \frac{(x^2 + 1)^2}{y^2}$...

Simplifying Variable Expressions - Effortless Math

Simplifying Variable Expressions Simplify each expression. 1) $3(T+9) = 2$
 $(-6)(8T-4) = 3$ 7) $T+3-3T = (4)$ $-2-T^2-6T^2 = 5$ 3) $10T^2+2 = 6$ 8) $T^2+6T+7T^2 = 5$
... Math Worksheets Name: ...

Grade 9 Simplifying Radical Expressions - Arizona ...

Strand 3: Patterns, Algebra, and Functions Concept 3: Algebraic Representations P0 8. Simplify and evaluate polynomials, rational expressions, expressions containing absolute value, and ...

GRADE 9 - ALGEBRA PRACTISE QUESTIONS SIMPLIFICATION

GRADE 9 - ALGEBRA – PRACTISE ... Simplify the following and then classify the expressions as monomials, binomials or trinomials: 1.1.1 $-2(a + - 5a)$ 1.1.2 $(a - b)(a + b)$ 1.1.3 1.1.4 $16x^3$...

Simplifying Radical Expressions - ChiliMath

Direction: Simplify each radical. Show all your work in the space provided.
... Simplifying Radical Expressions Version 1 Name: _____ Date: _____ Score: _____
1) 28 27 2) 75 53 3) $16xy^{22}$...

Algebra 2 - 9.2 - Simplify Cube Roots Practice - Mrs. Roth's ...

©E wKluQtdaY DS3oEfbtwwdaqr3e5 HLQL3C7.M v HAILmLD PrTiygmhrt Is0
BrjeNsuezr5vmevd8.4 S PM3ahdJe7 vwJiatjh 2 VITnMfPiNn6idtqeq bAplhgyeVbLrPaL
g2Y.X ...

7.1R Simplifying Radicals 020316 - Rochester City School District

Aug 16, 2002 · L0: I can simplify radical expressions including adding, subtracting, multiplying, dividing and rationalizing denominators. DO NOW On the back of this packet (1) calculator ...

[Algebra Simplify Expressions Worksheets](#)

Algebra Simplify Expressions Worksheets

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