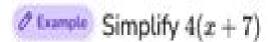
# Simplifying Expressions

Simplifying expressions involves using the properties of operations to create equivalent algebraic expressions.



This means '4 times the sum of x and 7.'

Repeated addition	Box method	Distributive property
4(x+7)	x +7	
= (x+7)+(x+7)+(x+7)+(x+7) = $x+7+x+7+x+7+x+7$	4 4x +28	4(x+7)
Combine the four zs and the four 7s:	Multiply $4$ times $x$ and $4$ times $7$ :	Distribute the $4$ to the $x$ and the $7$ :
4x + 28	4x + 28	4x + 28

So 
$$4(x+7) = 4x + 28$$



# **Algebra Simplifying Review**

**Kerry Kauffman** 

## Algebra Simplifying Review:

Algebra Simplified - Beginner & Intermediate Kerry Kauffman, 2011-09-08 This book is intended to assist those taking a basic and intermediate high school algebra course or those interested in learning algebra It focuses on examples illustrating each topic with step by step solutions for easy understanding At the end of each section are review exercises Each chapter concludes with key concepts a student should understand before proceeding to the next chapter The book features more than 500 exercises to help a student master the concepts Important tips for easier learning are presented throughout the book in bold print Numerous graphs are given to help explain linear equations systems of linear equations inequalities and rational and radical functions. The end of the book features a large selection of word problems and a glossary of important terms used throughout the book Algebra Simplified Intermediate & Advanced Kerry Kauffman, 2012-04-30 Algebra Simplified Intermediate Advanced picks up where my first book Algebra Simplified Basic Intermediate left off It is intended to assist students in intermediate and advanced topics studied in a 2nd year high school algebra course or an intermediate college algebra course The material is presented in textbook style format with each concept illustrated through numerous examples The examples are solved methodically to explain each concept as simply as possible Important notes and tips for easier learning are presented in bold throughout the book The goal is provide readers sufficient detail in the examples so they can solve similar problems on their own which are presented at the end of each section Topics covered include division and roots of polynomials quadratic formula completing the square radicals rational exponents complex numbers logarithms conic sections composition of functions inverse functions arithmetic and geometric sequences and matrices 80 Activities to Make Basic Algebra Easier Robert S. Graflund, 2001 With this sourcebook of reproducible puzzles and practice problems you can successfully reinforce first year algebra skills Now revised to meet NCTM standards this book contains more teaching tips new calculator activities and additional outdoor math activities Secret codes magic squares cross number puzzles and other self correcting devices provide stimulating and fun practice Chapters cover basic equations and inequalities with real numbers polynomials factoring using fractions graphing and systems of linear equations and rational and irrational numbers Worked out examples drawings and cartoons clarify key ideas Answers are included CliffsNotes Basic Math & Pre-Algebra Quick Review, 2nd Edition Jerry Bobrow, 2011-04-25 Inside the Book Preliminaries Whole numbers Decimals Fractions Percents Integers and rationals Powers exponents and roots Powers of ten and scientific notation Measurements Graphs Probability and statistics Number series Variables algebraic expressions and simple equations Word problems Review questions Resource center Glossary Why CliffsNotes Go with the name you know and trust Get the information you need fast Master the Basics Fast Complete coverage of core concepts Easy topic by topic organization Access hundreds of practice problems at CliffsNotes com Calculus: 1001 Practice Problems For Dummies (+ Free Online Practice) Patrick Jones, 2022-06-01 Practice your way to a higher grade in Calculus Calculus is a hands on skill You ve gotta use it or lose it

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