



## Algebra Essentials Practice Workbook with Answers: Linear & Quadratic Equations, Cross Multiplying, and Systems of Equations: Improve Your Math Fluency Series

By Chris McMullen

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**UPDATED EDITION:** The new edition includes these updates:

- The updated edition **numbers the questions and answers**. This helps to easily find the correct answers in the back of the book.
- 100% of the answers to the updated edition have been independently **verified** both by computer and by an international math whiz.

**AUTHOR:** Chris McMullen earned his Ph.D. in physics from Oklahoma State University and currently teaches physics at Northwestern State University of Louisiana. He developed the *Improve Your Math Fluency* series of workbooks to help students become more fluent in basic math skills.

**CONTENTS:** This *Algebra Essentials Practice Workbook with Answers* provides ample practice for developing fluency in very fundamental algebra skills - in particular, how to solve standard equations for one or more unknowns. These algebra 1 practice exercises are relevant for students of all levels - from grade 7 thru college algebra. This workbook is conveniently divided up into seven chapters so that students can focus on one algebraic method at a time. Skills include solving linear equations with a single unknown (with a separate chapter dedicated toward fractional coefficients), factoring quadratic equations, using the quadratic formula, cross multiplying, and solving systems of linear equations. Not intended to serve as a comprehensive review of algebra, this workbook is instead geared toward the most essential algebra skills. An introduction describes how parents and teachers can help students make the most of this workbook. Students are encouraged to time and score each page. In this way, they can try to have fun improving on their records, which can help lend them confidence in their math skills.

**PRACTICE:** With no pictures, this workbook is geared strictly toward learning the material and developing fluency through practice.

**EXAMPLES:** Each section begins with a few pages of instructions for how to solve the equations followed by a few examples. These examples should serve as a useful guide until students are able to solve the problems independently.

**ANSWERS:** Answers to 100% of the exercises are tabulated at the back of the book. This helps students develop confidence and ensures that students practice correct techniques, rather than practice making mistakes. All answers from the updated edition have been verified both by computer and independently by an international math whiz.

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**NOTE:** The answer key uses standard form. Fractions are expressed as reduced fractions and perfect squares are factored out of squareroots. For example, if you receive an answer of 1 over root 8, the answer key will instead show root 2 over 4; both answers are the same, but the answer key uses standard form.

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