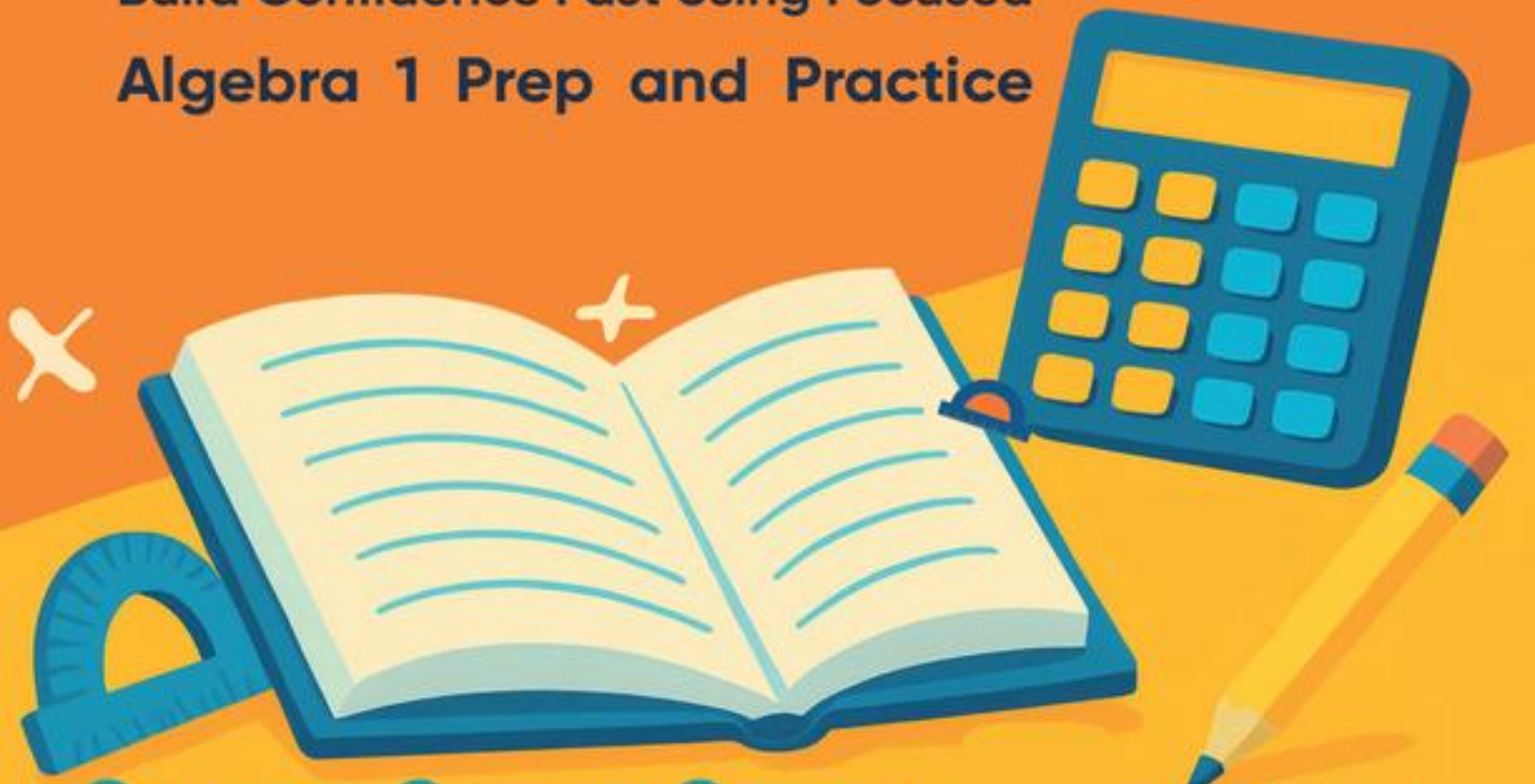
7 Full-Length Missouri Algebra I Practice Tests

Build Confidence Fast Using Focused
Algebra 1 Prep and Practice



Practice Master Achieve

Reza Nazari

7 Missouri Algebra I Practice Tests

Your Path to Confidence, Mastery, and Top Scores on the Missouri Algebra 1 Test



7 full-length practice tests

Reza Nazari

Copyrighted Material

Copyright © 2026

Effortless Math Education Inc

Published by Effortless Math Education

www.effortlessmath.com

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law, including Section 107 or 108 of the 1976 United States Copyright Act.

This publication is independently produced and has no official connection to any state, district, or national testing program.

Test names and organizational names used herein are the property of their respective trademark holders.

Copyright © 2026

Copyrighted Material

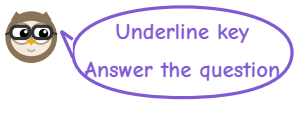
- If the scenario is complex, sketch a quick graph, build a table of values, or label a diagram. Visual models transform abstract algebra into concrete relationships you can see and reason about.

Phase 2: SOLVE with Purpose

- Write each algebraic step on its own line. Skipping steps "in your head" is the single most common source of careless mistakes on timed tests—especially with negative signs and distributing.
- When factoring a quadratic like $x^2 + 5x + 6$, find two numbers that multiply to the constant and add to the linear coefficient: $2 \times 3 = 6$ and $2 + 3 = 5$, giving $(x + 2)(x + 3)$.
- Stuck on a multiple-choice item? Substitute each answer choice back into the original equation or inequality. Working backward is a legitimate and powerful strategy.
- For systems of equations, choose the most efficient method: substitution when one variable is already isolated, elimination when coefficients align, graphing when the question asks for a visual intersection.

Phase 3: VERIFY Before You Move On

- Apply a **reasonableness check**. If a question asks for the number of tickets sold and your answer is -12, something went wrong. Real-world context catches algebraic errors that pure computation cannot.
- Confirm that you answered the *actual* question. If the problem asks for the vertex of a parabola, do not submit a root. If it asks for the y-intercept, do not leave your answer as a value of x.
- For factoring and quadratic problems, multiply your factors back out to verify they produce the original expression. This thirty-second check catches sign errors and misplaced terms.

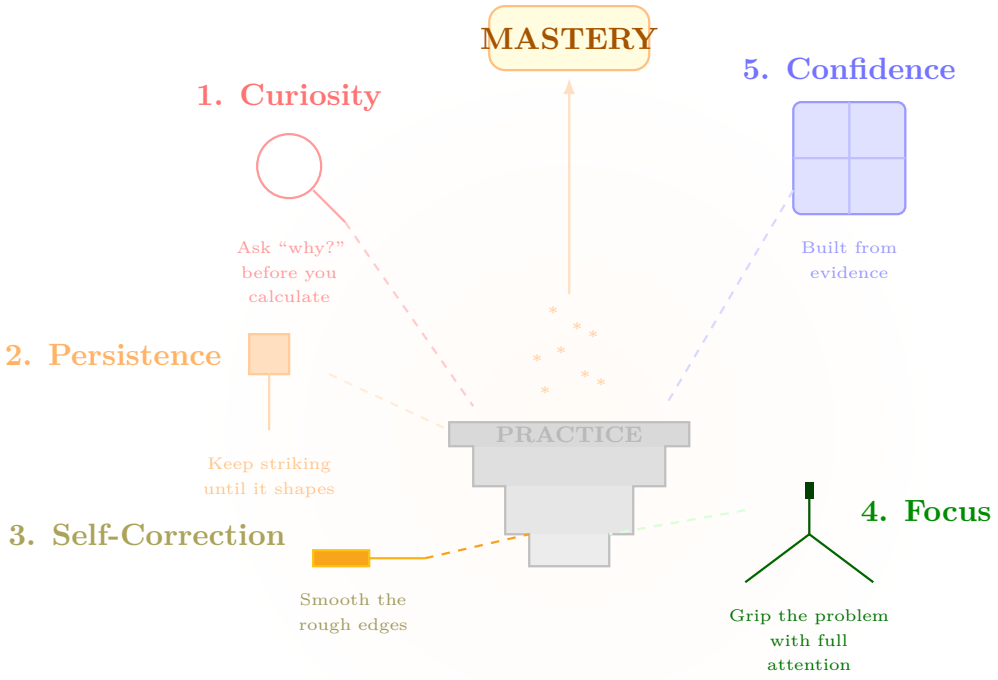


Clock Management

Divide the test mentally into thirds. After completing one-third of the items, glance at the clock to gauge your pace. If you have spent more than two minutes on a single question, mark it, move forward, and return to it after you have collected every point you can from the remaining items. Many students lose points not because they lack knowledge, but because they run out of time on problems they *could* have solved.

Think Like an Algebraist

Five Tools Forged in Practice



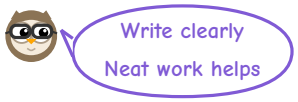


Worked Examples at a Glance

Solve for x	$7x - 3 = 4x + 12 \;\Rightarrow\; 3x = 15 \;\Rightarrow\; x = 5$
Slope from a graph	Rise $= 6$, Run $= 4$: $m = \frac{6}{4} = \frac{3}{2}$
Scientific notation	$8{,}300{,}000 = 8.3 \times 10^6$
Simplify $(2^3)^4$	$2^{3\times4} = 2^{12} = 4{,}096$
Reflect $(3,\,5)/x$**-axis**	$(3,\,-5)$
Rotate $(1,\,-6)$**,** $180°$	$(-1,\,6)$
Sphere volume, $r = 6$	$V = \frac{4}{3}\pi(216) = 288\pi$
Estimate $\sqrt{20}$	Between 4 and 5; ≈ 4.5; $4.5^2 = 20.25$ ✓

Your Pre-Test Ritual

- Skim every question before you begin. Identify the easy ones so you know where your quick points are.
- For each problem, name the topic (slope, exponents, volume, etc.) before you compute.
- Write neatly and show every step—partial credit is often awarded for correct reasoning.
- Watch for unit traps: if the radius is given in inches but answers are in feet, convert first.
- Save three to five minutes at the end for a final review of flagged items.



Scan Me

Trap Alerts: The Mistakes Everyone Makes

Power of a Power	$(a^m)^n = a^{mn}$, *not* a^{m+n}. Multiply exponents, don't add.
Domain vs. Range	Domain = inputs (x); Range = outputs (y). Mixing them is very common.
Distance formula slips	Both differences must be squared. Forgetting one produces a wrong distance.
No solution vs. ∞	$0 = 5$ (false) $\rightarrow$ no solution. $0 = 0$ (true) $\rightarrow$ infinitely many.
Sci. notation form	Coefficient must satisfy $1 \leq a < 10$. 32×10^4 is invalid; use 3.2×10^5.

Review these cards before every test. Familiarity breeds confidence.

Table of Contents

★ Practice Test 1 ____ 20
★ Practice Test 2 ____ 42
★ Practice Test 3 ____ 63
★ Practice Test 4 ____ 85
★ Practice Test 5 ____ 105
★ Practice Test 6 ____ 125
★ Practice Test 7 ____ 147
Practice Test Answer Keys ____ 173
Practice Test Answers and Explanations ____ 178