

5

Nebraska

NSCAS Growth

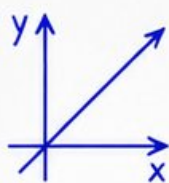
GRADE

7

MATH

PRACTICE TESTS

Standards Aligned
Problem Solving
For Comprehensive
Assessment Programs



$$y = mx + b$$

$$\frac{2}{3} + \frac{1}{6} = \frac{5}{6}$$



$$V = \pi r^2 h$$

**5 PRINTED TESTS****2 ONLINE TESTS**

USE THESE TWO
**ADDITIONAL ONLINE
PRACTICE TESTS**
FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.



Build
Confidence



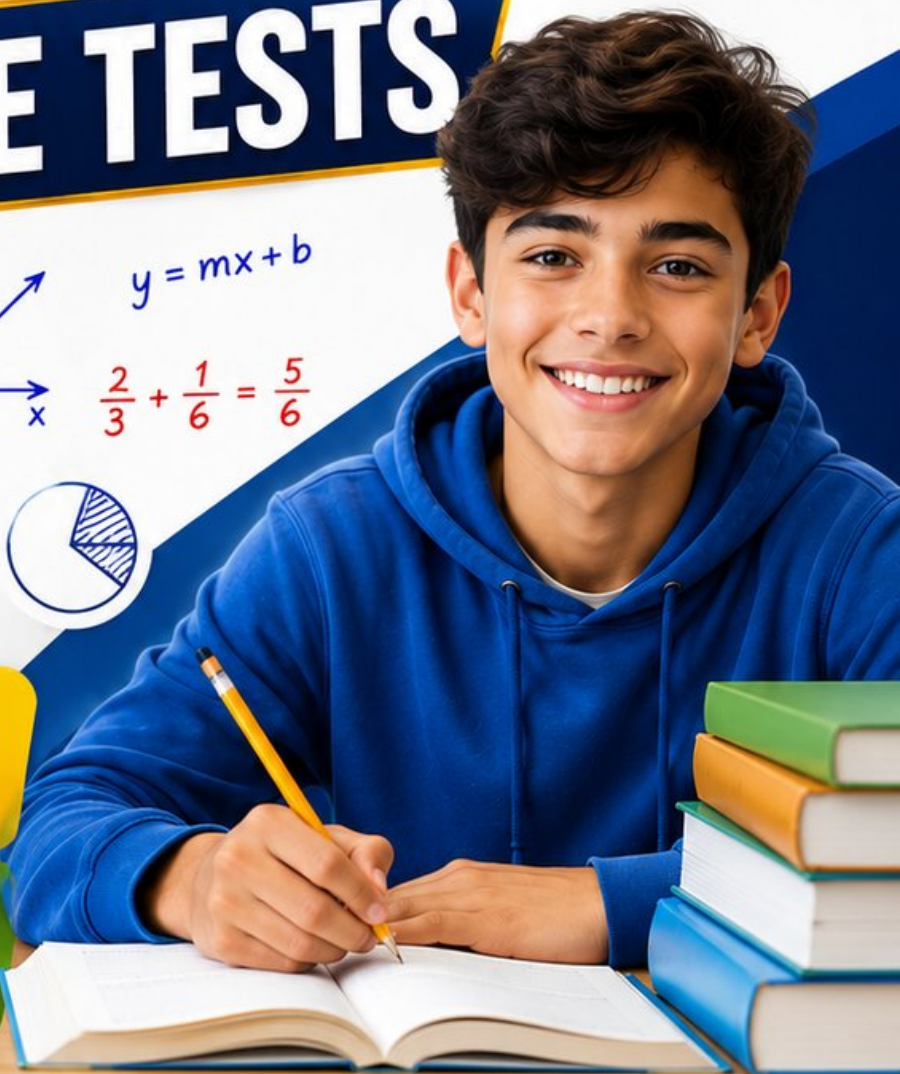
Strengthen
Math Skills



Detailed Answers
& Explanations

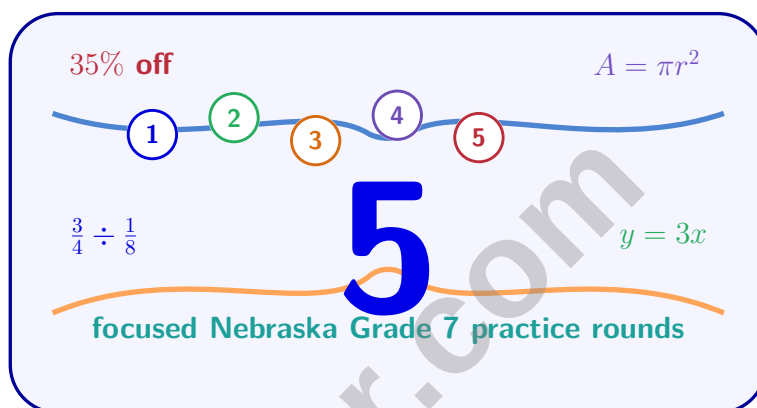


Improve Test
Performance



5 Nebraska NSCAS Growth Grade 7 Math Practice Tests

Focused Grade 7 Test Prep with Review, Keys, and Solution Support



Five complete 40-question Grade 7 NSCAS Growth practice rounds with proportional relationships, percents, rational numbers, expressions, equations, geometry, statistics, probability, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Nebraska Grade 7 Problem Solver!

Five focused rounds for sharper NSCAS Growth math thinking

This book gives you five full Grade 7 NSCAS Growth math practice tests. Each round is built to help you notice structure, compare quantities, use proportional reasoning, handle rational numbers, and explain your thinking with care.

Your Nebraska Practice Promise

I will read every question carefully, choose a strategy that fits, write enough work to prove my answer, and use corrections as training for the next test.

Read

Model

Verify

How to Use This Book

A five-session plan for confident Grade 7 review

1. **Warm up with the review pages.** Notice the big ideas before starting the tests.
2. **Complete one test at a time.** Treat each 40-question round like a real practice session.
3. **Show your reasoning.** Jot a proportion, equation, diagram, number line, or quick estimate when it helps.
4. **Correct actively.** Rework missed items before reading the explanation.
5. **Choose the next target.** After each test, name one skill and one habit to improve.

Nebraska review rhythm: Work a test, score it, study your misses, then come back ready for the next round with one clear goal.



What Is Inside?

Five NSCAS Growth tests, 200 questions, and a focused review path

Part	What You Will Practice
Tests 1–2	Proportional relationships, unit rates, percents, rational-number operations, and careful reading.
Tests 3–5	Expressions, equations, inequalities, scale drawings, geometry, data, probability, and multi-step problem solving.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Grade 7 success means recognizing which idea is being tested even when the next question changes format.



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For more practice
& answers

Table of Contents

★ Practice Test 1	_____	13
★ Practice Test 2	_____	28
★ Practice Test 3	_____	42
★ Practice Test 4	_____	56
★ Practice Test 5	_____	70
Practice Test Answer Keys	_____	84
Practice Test Answers and Explanations	_____	88

1) Which expression is equivalent to $-(4x - 7)$?

☐ A. $-4x - 7$

☐ C. $4x - 7$

☐ B. $-4x + 7$

☐ D. $4x + 7$

2) Simplify: $3 - (-3)$

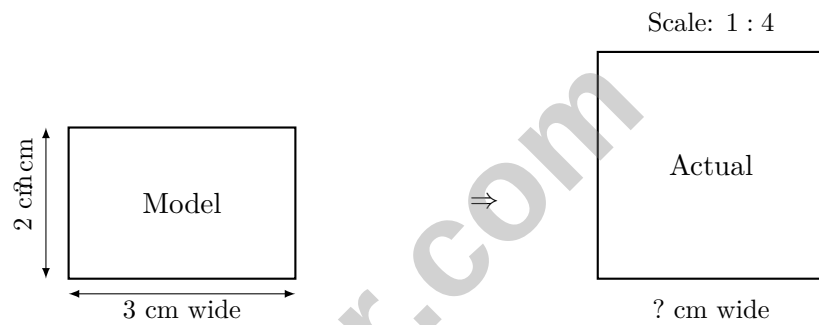
☐ A. 0

☐ C. -6

☐ B. 3

☐ D. 6

3)



If the scale factor is 1 : 4, what are the actual dimensions?

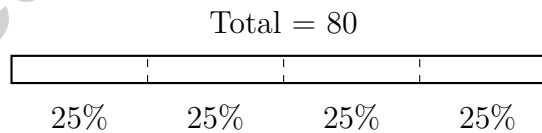
☐ A. 12 cm $\times$ 10 cm

☐ C. 7 cm $\times$ 6 cm

☐ B. 0.75 cm $\times$ 0.5 cm

☐ D. 12 cm $\times$ 8 cm

4)



The bar model shows a number divided into equal parts. What is 25% of 80?

☐ A. 15

☐ C. 25

☐ B. 30

☐ D. 20



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5) What is $-10 + 5 + (-3)$?

☐ A. -18

☐ C. 8

☐ B. 18

☐ D. -8

6) A survey shows that in a group of 240 people, 22% prefer tea over coffee. How many people prefer tea?

☐ A. 22

☐ C. 52.8

☐ B. 48

☐ D. 66

7) Convert 0.125 to a fraction in simplest form.

☐ A. $\frac{1}{8}$

☐ C. $\frac{1}{12}$

☐ B. $\frac{125}{1000}$

☐ D. $\frac{5}{40}$

8) A container holds $\frac{3}{5}$ liter of juice. If you pour out $\frac{1}{4}$ of the juice, how much juice is left?

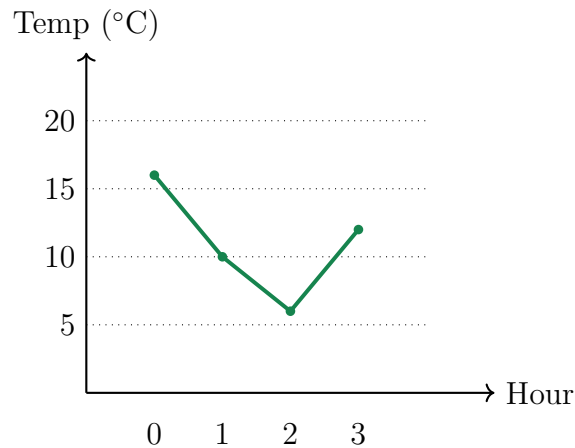
☐ A. $\frac{9}{20}$ liter

☐ C. $\frac{1}{2}$ liter

☐ B. $\frac{3}{20}$ liter

☐ D. $\frac{3}{5}$ liter





9)

A thermometer records temperatures at four time points. From the graph, what is the change in temperature from hour 1 to hour 3?

☐ A. $+4^{\circ}\text{C}$
☐ C. -1°C
☐ B. -4°C
☐ D. $+6^{\circ}\text{C}$

10) A student writes: $0.0003 = 3 \times 10^{-3}$. Identify the error.

☐ A. The coefficient is too large.

☐ C. The exponent should be -4 , not -3 .

☐ B. The exponent should be positive.

☐ D. The answer is correct.

11) Evaluate $\frac{x-1}{3} + 2$ when $x = 7$.

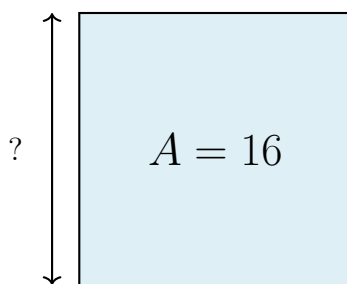
☐ A. 3

☐ C. 4

☐ B. 2

☐ D. $\frac{8}{3}$


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1)

What is the side length of the square?

☐ A. 2☐ C. 4☐ B. 3☐ D. 5

2) A jacket has a sale price of \$45 after a 10% discount. What was the original price?

☐ A. \$49.50☐ C. \$40.50☐ B. \$54☐ D. \$503) An error appears below. A student wrote: "Since 4 apples cost \$10, the equation is $a = \frac{10}{4}p$, where a is apples and p is price." What is the mistake?☐ A. The student should use addition, not division.☐ C. The equation is correct.☐ D. The student reversed the variables;☐ B. The constant should be 2.5, not $\frac{10}{4}$. it should be $p = \frac{10}{4}a$.

4) A chef uses flour and sugar in a proportional recipe. The table shows the relationship.

Flour (cups)	Sugar (cups)
3	1
6	2
9	3

What is the constant of proportionality (sugar per flour)?

☐ A. 3☐ C. $\frac{1}{2}$ ☐ B. 1☐ D. $\frac{1}{3}$ 

- 5) Simplify $\frac{1}{4}m + \frac{3}{4}m + 2n$, then evaluate when $m = 2$ and $n = 3$.

- 6) Solve: $\frac{x}{3} \geq 2$

☐ A. $x \geq \frac{2}{3}$

☐ B. $x \leq 6$

☐ C. $x \geq 6$

☐ D. $x \geq 2$

- 7) A cube has edge length 6 cm. Find its surface area.

☐ A. 36 cm^2

☐ B. 72 cm^2

☐ C. 144 cm^2

☐ D. 216 cm^2

- 8) A coin is flipped twice to simulate a compound event. How many outcomes involve “at least one heads”?

☐ A. 1

☐ B. 2

☐ C. 3

☐ D. 4

- 9) A model airplane has a scale of 1 in : 8 ft. The model is 12 inches long. How long is the actual airplane?

☐ A. 48 ft

☐ B. 64 ft

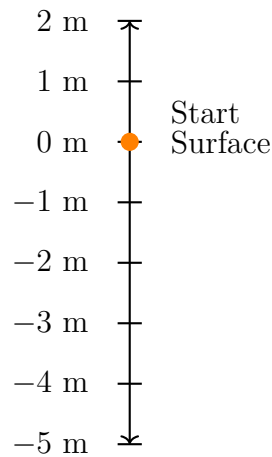
☐ C. 96 ft

☐ D. 108 ft



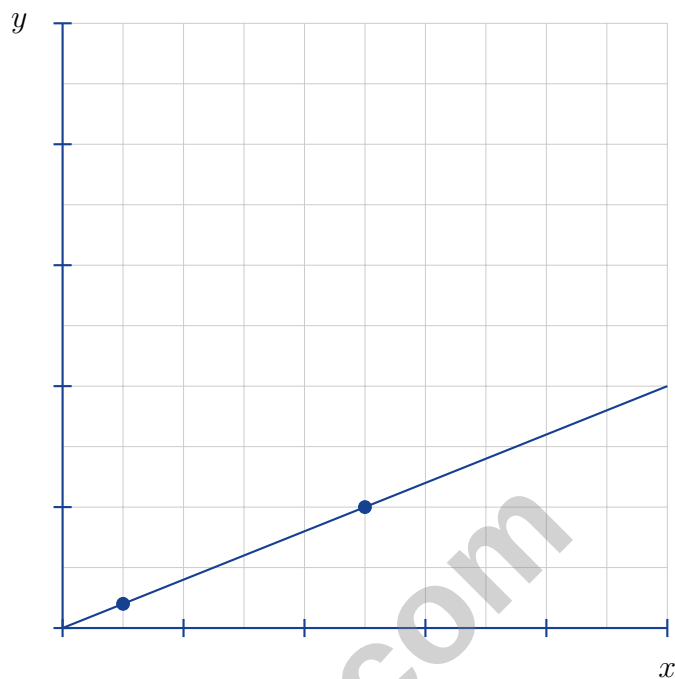
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- 1) Use the number line. A diver starts at the surface (0 m). She descends 3.5 m, then ascends 1.2 m. What is her position?



- ☐ A. -4.7 m ☐ C. 2.3 m
☐ B. -2.3 m ☐ D. 4.7 m
- 2) Express 0.000000008 in scientific notation.
- ☐ A. 8×10^{-8} ☐ C. 8×10^{-10}
☐ B. 8×10^{-9} ☐ D. 80×10^{-9}
- 3) Evaluate $\frac{2(a+b)}{4}$ when $a = 5$ and $b = 3$.
- ☐ A. 4 ☐ C. 8
☐ B. 2 ☐ D. $\frac{1}{4}$
- 4) A map uses a scale of 1 cm : 15 km. If a road is 450 km long, what length would it be on the map?
- ☐ A. 10 cm ☐ C. 30 cm
☐ B. 20 cm ☐ D. 45 cm





5)

Two points on a proportional line are marked. The left point is at the unit rate. Find the equation of the line.

☐ A. $y = 10x$

☐ C. $y = 5x$

☐ B. $y = 2.5x$

☐ D. $y = 0.4x$

6) Solve for x : $6(x - 2) = 36$ 

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Nebraska NSCAS Growth Grade 7 Practice Test Answer Keys

How to use this section with a Grade 7 student:

1. check the answer first and circle any item that needs another look
2. retry the problem with fresh work before reading the explanation
3. write one short lesson learned from each missed or guessed item

A strong review routine turns every correction into a sharper plan for the next Nebraska NSCAS Growth practice test.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** (7.EE.1-7.EE.2) Using $-1(4x - 7) = -4x + 7$, or distribute the negative: opposite of $4x$ is $-4x$, opposite of -7 is $+7$.
- 2) **Choice D is correct.** (7.NS.1-7.NS.3) $3 - (-3) = 3 + 3 = 6$.
- 3) **Choice D is correct.** (7.RP.1-7.RP.3) Multiply each model dimension by scale factor 4: $3 \times 4 = 12$ cm; $2 \times 4 = 8$ cm.
- 4) **Choice D is correct.** (7.RP.3) 25% of 80 is $\frac{1}{4} \times 80 = 20$.
- 5) **Choice D is correct.** (7.NS.1b) Step-by-step: $-10 + 5 = -5$, then $-5 + (-3) = -8$. Or combine negatives first: $-10 + (-3) = -13$, then $-13 + 5 = -8$.
- 6) **Choice C is correct.** (7.SP.1-7.SP.4) 22% of 240 = $0.22 \times 240 = 52.8$ people.
- 7) **Choice A is correct.** (7.NS.2d) $0.125 = \frac{125}{1000}$. Find GCD(125, 1000) = 125. Divide both: $\frac{125 \div 125}{1000 \div 125} = \frac{1}{8}$. A is simplest form.
- 8) **Choice A is correct.** (7.NS.1-7.NS.3) Amount poured out: $\frac{1}{4} \times \frac{3}{5} = \frac{3}{20}$ liter. Amount left: $\frac{3}{5} - \frac{3}{20} = \frac{12}{20} - \frac{3}{20} = \frac{9}{20}$ liter.
- 9) **Choice B is correct.** (7.NS.1-7.NS.3) Reading from graph: hour 1 is 16°C , hour 3 is 12°C . Change = $12 - 16 = -4^\circ\text{C}$.
- 10) **Choice C is correct.** (7.NS.1-7.NS.3) $0.0003 = 3 \times 10^{-4}$ (move decimal 4 places right). The student moved it only 3 places.
- 11) **Choice C is correct.** (7.EE.1-7.EE.2) Substitute: $\frac{7-1}{3} + 2 = \frac{6}{3} + 2 = 2 + 2 = 4$.
- 12) **The correct answer is $\frac{2}{5}$.** (7.RP.1-7.RP.3) The ratio flour to milk is 2 : 5, so the constant is $\frac{2}{5}$.
- 13) **Choice D is correct.** (7.RP.1-7.RP.3) Plan A: $\frac{15}{3/4} = 15 \times \frac{4}{3} = 20$ \$/GB. Plan B: $\frac{10}{1/2} = 10 \times 2 = 20$ \$/GB. Same rate.
- 14) **The correct answer is \$51.** (7.RP.3) Discount amount = $0.32 \times 75 = \$24$. Sale price = $75 - 24 = \$51$.
- 15) **Choice D is correct.** (7.RP.1-7.RP.3) All y/x ratios equal 5 gallons per minute, confirming a proportional relationship.
- 16) **The correct answer is \$2500.** (7.RP.3) $500 = P \times 0.05 \times 4 \Rightarrow 500 = 0.2P \Rightarrow P = \2500 .
- 17) **Choice D is correct.** (7.RP.1-7.RP.3) Using either marked point: (2, 1) gives $k = 1/2 = 0.5$; (4, 2) gives $k = 2/4 = 0.5$. Constant of proportionality is 0.5.
- 18) **Choice D is correct.** (7.RP.3) Using the proportion $\frac{25}{100} = \frac{x}{200}$: increase is $x = 50$. New price: $200 + 50 = \$250$.
- 19) **The correct answer is 8.33%.** (7.RP.3) Percent error = $\frac{|55000 - 60000|}{60000} \times 100\% = \frac{5000}{60000} \times 100\% \approx 8.33\%$.
- 20) **Choice C is correct.** (7.RP.3) Wants = $30\% \times \$2,400 = 0.30 \times 2400 = \720 .
- 21) **The correct answer is A,B.** (7.RP.1-7.RP.3) $k = 5/20 = 0.25$ miles per minute, so A is correct. When $t = 40$: $d = 0.25 \times 40 = 10$ miles, so B is correct. C is incorrect: $d = 0.25t$, not $4t$. D is incorrect: $d = 0.25 \times 60 = 15$ miles, not 12.
- 22) **Choice A is correct.** (7.NS.1-7.NS.3) Correct answer: $\frac{1}{3} + \frac{1}{4} = \frac{4}{12} + \frac{3}{12} = \frac{7}{12}$. The student added numerators and denominators separately instead of finding a common denominator first.
- 23) **Choice C is correct.** (7.NS.1-7.NS.3) $3\frac{1}{3} = \frac{10}{3}$. Then $\frac{10}{3} \div \frac{2}{3} = \frac{10}{3} \times \frac{3}{2} = \frac{10}{2} = 5$.
- 24) **Choice A is correct.** (7.SP.5-7.SP.8) In a uniform random selection, each of the 28 students has equal probability: $P(\text{student selected}) = \frac{1}{28}$.
- 25) **Choice C is correct.** (7.NS.1-7.NS.3) $12^2 = 144$ and $13^2 = 169$. Since $144 < 150 < 169$, we have $12 < \sqrt{150} < 13$.
- 26) **Choice C is correct.** (7.EE.1-7.EE.2) The original simplified form is $10x - 15$. Adding $-3 - 5 + 3$ creates extra terms: $10x - 15 - 3 - 5 + 3 \neq 10x - 15$. This shows a misunderstanding of equivalent forms.
- 27) **Choice D is correct.** (7.RP.3) Ticket cost = $4 \times 12 = \$48$. Total = $48 + 1.50 = \$49.50$.
- 28) **Choice C is correct.** (7.NS.2) $2\frac{1}{2} = \frac{5}{2}$. So $\frac{5}{2} \times 4 = \frac{20}{2} = 10$.
- 29) **Choice A is correct.** (7.SP.3) Team A's box spans 2–6 hours; Team B's box spans 4–9 hours. The overlap region is where both boxes exist: from 4 to 6 hours. This means both teams have students who practice in this shared range.
- 30) **Choice A is correct.** (7.RP.3) Account 1: $1200(1.07) = 1284$. Account 2: $1100(1.08) = 1188$. Difference: $1284 - 1188 = 96$.



Hi, Persistent Problem Solver!

◇ Some Grade 7 questions ask you to hold several ideas in your mind at once. That can feel hard, and that is exactly why practice matters. ◇

★ **Remember this:** You showed persistence by continuing through the set. That habit is powerful because difficult problems often open after one more good attempt. You practiced across 5 full Grade 7 practice tests, and that repeated effort matters. ★

Persistence Tools

- **Try a Smaller Case:** Use an easier number to see the pattern.
- **Draw It:** Make the situation visible.
- **Restate It:** Say the question in your own words.
- **Check One Step:** Fix the first unclear place.

Grade 7 test-day tip: When stuck, do not restart everything. Find the first step you trust, then rebuild from there.

If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Persistence Coach

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes **5** full-length Math practice tests and **2** online tests to help Grade 7 students build confidence, strengthen skills, and excel on standardized assessments.

Each practice test is carefully crafted to reflect the latest standards and includes a variety of question types, realistic test conditions, and detailed answer explanations.

Perfect for classroom use, homework, test preparation, and extra practice at home.



THIS BOOK INCLUDES:

5 Full-Length Printed Tests

2 Online Practice Tests

 Detailed Answers & Explanations



MORE PRACTICE. GREATER RESULTS.

Give your child the tools to build strong math skills, confidence, and a positive attitude toward learning.

WHAT YOU'LL GAIN



Build Confidence

Practice regularly to feel prepared and test-ready.



Strengthen Math Skills

Develop key math concepts and problem solving abilities.



Improve Understanding

Learn with clear explanations and step-by-step solutions.



Test Confidence

Familiarize with test formats and improve accuracy and speed.



Boost Performance

Apply your knowledge and achieve your best score!

TOPICS COVERED

- ✓ Ratios & Proportions
- ✓ The Number System
- ✓ Expressions & Equations
- ✓ Geometry
- ✓ Percents & Decimals
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ Algebraic Thinking
- ✓ And More!



2 ONLINE TESTS

Use these two additional online practice tests for extra review after the printed tests in this book.



2 EXTRA ONLINE TEST ACCESS CODE IS INSIDE THE BOOK!

Don't lose it—your extra practice and success start here!



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