

4

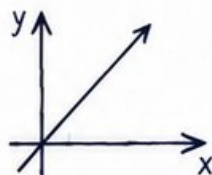
California CAASPP

GRADE
7
MATH

PRACTICE TESTS

Standards Aligned
Problem Solving
For Comprehensive
Assessment Programs

$$y = mx + b$$



$$\frac{2x}{3} + \frac{x}{6} = 2$$



$$V = \frac{1}{3} \pi r^2 h$$

**4 PRINTED TESTS****2 ONLINE TESTS**

USE THESE TWO
**ADDITIONAL ONLINE
PRACTICE TESTS**

FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.



Build
Confidence



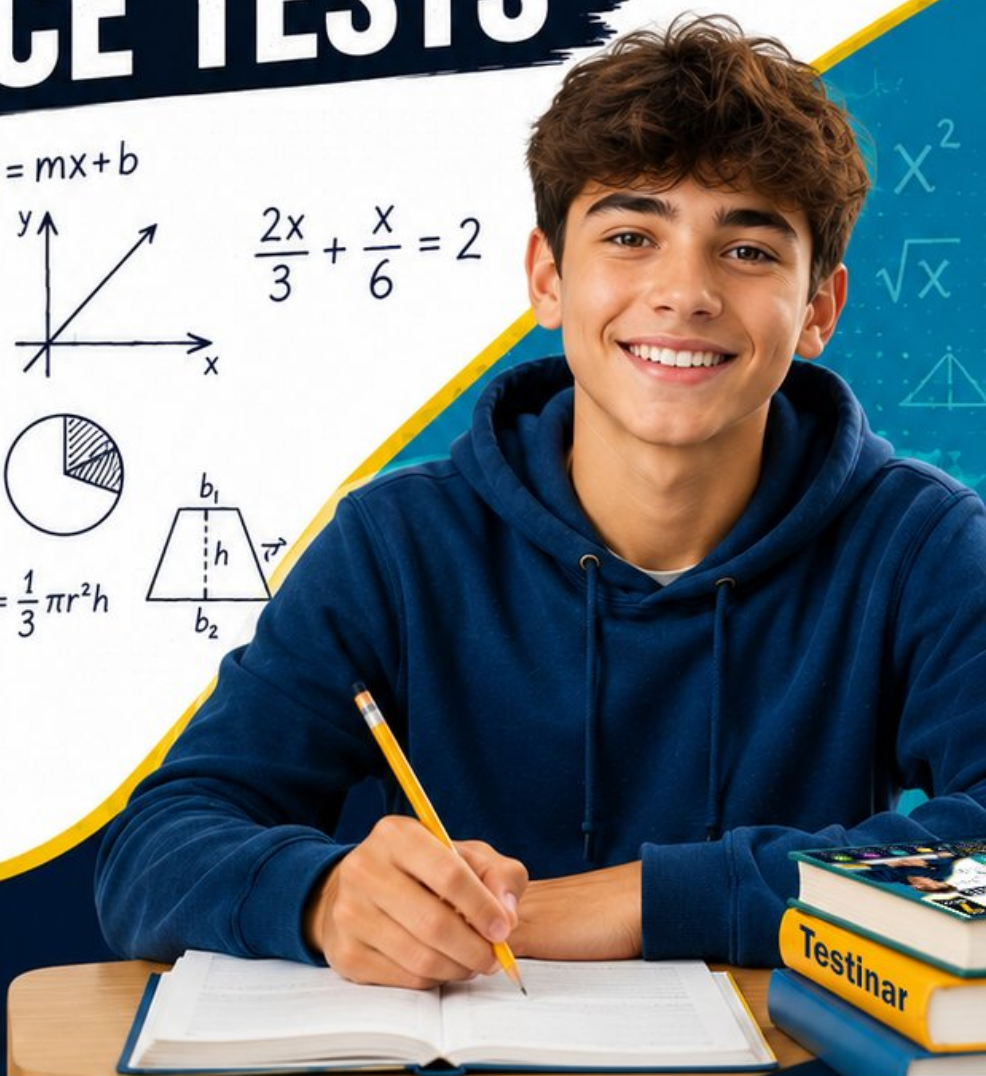
Strengthen
Math Skills



Detailed Answers
& Explanations

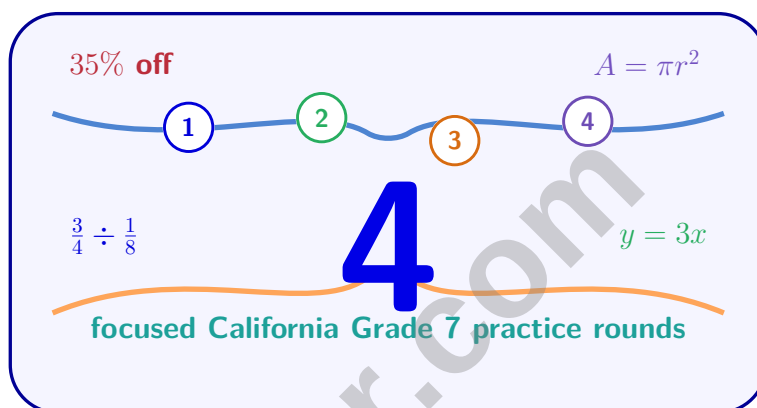


Improve Test
Performance



4 California CAASPP Grade 7 Math Practice Tests

Targeted California Practice with Review and Full Explanations



Four complete 40-question Grade 7 CAASPP 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



Copyright ©

Testinar Inc



Published by Testinar Inc

Testinar.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 ©

Welcome, California Grade 7 Problem Solver!

Four focused rounds for sharper CAASPP math thinking

This book gives you four full Grade 7 CAASPP 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 California 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 four-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.

California 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?

Four CAASPP tests, 160 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 3–4	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.



Scan me!
For more practice
& answers

Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	28
★ Practice Test 3	_____	43
★ Practice Test 4	_____	58
Practice Test Answer Keys	_____	74
Practice Test Answers and Explanations	_____	77

- 1) A subscription service costs \$10 per month. After a 50% price increase, what is the new monthly cost?
- ☐ A. \$5 ☐ C. \$15
☐ B. \$12 ☐ D. \$20
- 2) Which cylinder has the largest volume?
- ☐ A. $r = 2$ cm, $h = 8$ cm ☐ C. $r = 1$ cm, $h = 15$ cm
☐ B. $r = 3$ cm, $h = 6$ cm ☐ D. $r = 2.5$ cm, $h = 4$ cm
- 3) A teacher gives Practice Test 1 and Practice Test 2. Both have a mean of 75. Test 1 has a range of 15 points. Test 2 has a range of 40 points. What conclusion is valid?
- ☐ A. Test 2 is harder than Test 1 ☐ C. Students performed identically on both tests
☐ B. Test 1 had more consistent performance across students ☐ D. Test 2 is easier
- 4) A circle graph shows a restaurant's revenue: Food Sales 60%, Beverages 25%, Merchandise 10%, Other 5%. The Food Sales sector has a central angle of how many degrees?
- ☐ A. 216 degrees ☐ C. 60 degrees
☐ B. 150 degrees ☐ D. 240 degrees
- 5) A bag contains 6 white socks and 4 black socks. A sock is drawn at random. What is the probability of drawing a white sock?
- ☐ A. $\frac{3}{5}$ ☐ C. $\frac{1}{2}$
☐ B. $\frac{2}{5}$ ☐ D. $\frac{4}{6}$

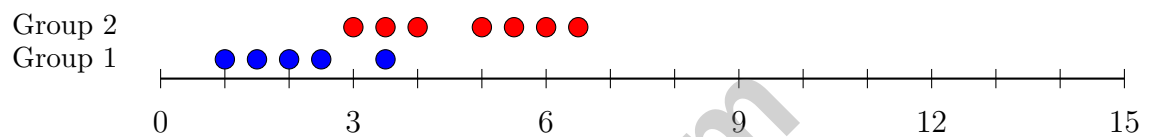


- 6) A spinner with sections 1, 2, 3 is spun, and a coin is flipped. What is the probability of getting a number greater than 1 and a Tails?

☐ A. $\frac{1}{6}$
☐ B. $\frac{1}{3}$

☐ C. $\frac{2}{3}$
☐ D. $\frac{1}{2}$

- 7) The dot plots below show the number of text messages sent by two groups of students during a school day.



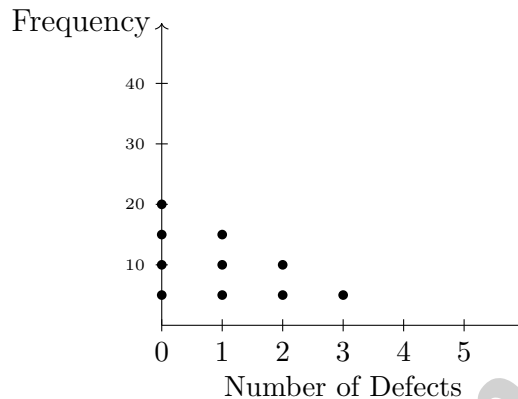
Which group has a higher center (median)?

- ☐ A. Group 1
☐ B. Group 2
☐ C. Both groups have the same median
☐ D. Cannot be determined from the plot
- 8) What is the error in the following reasoning? A student says: “The probability of getting heads on a coin flip is $\frac{1}{2}$. I just flipped heads, so the next flip is more likely to be tails.”
- ☐ A. Coin flips are mutually exclusive, not independent
☐ B. Each coin flip is independent; prior outcomes do not affect future ones
☐ C. The probability should be $\frac{1}{4}$ after getting heads once
☐ D. Tails becomes impossible after getting heads



Scan me!
 For more practice
 & answers

- 9) A random sample of 10 items was taken from a production line. The dot plot shows the frequency of defects per item:



Note: The column above 0 has 4 dots, column above 1 has 3 dots, column above 2 has 2 dots, column above 3 has 1 dot. Total: 10 items. Based on this sample of 10, what is the experimental probability that an item has no defects?

- ☐ A. $\frac{4}{10}$
☐ C. $\frac{1}{5}$
☐ B. 0.45
 ☐ D. 0.60
- 10) A dataset contains 24 values displayed in a stem-and-leaf plot. If the data is divided into lower and upper halves to find the interquartile range, how many values are in the upper half (excluding the median)?
- ☐ A. 10
 ☐ C. 12
☐ B. 11
 ☐ D. 13
- 11) A floor plan shows a large rectangle (12 ft $\times$ 9 ft) with a rectangular cutout in one corner (4 ft $\times$ 3 ft). What is the area of the remaining floor?
- ☐ A. 83 ft²
☐ C. 108 ft²
☐ B. 96 ft²
☐ D. 120 ft²



1) A store marks up items by $\frac{1}{4}$ of the cost. If an item costs \$80 to the store, what is the selling price?

☐ A. \$20

☐ B. \$90

☐ C. \$100

☐ D. \$120

2) Simplify: $5(2a + 3) - (a + 6)$.

☐ A. $10a + 15 - a - 6 = 9a + 9$

☐ B. $10a + 9$

☐ C. $11a - 6$

☐ D. $10a + 3$

3) What is $\frac{1}{3} \times \frac{1}{2}$?

☐ A. $\frac{1}{6}$

☐ B. $\frac{1}{5}$

☐ C. $\frac{2}{6}$

☐ D. $\frac{2}{3}$

4) A shirt costs \$24 and is on sale for 25% off. What is the sale price?

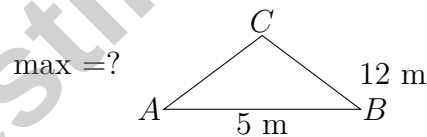
☐ A. \$6

☐ B. \$12

☐ C. \$18

☐ D. \$20

5)



Greta wants to draw a triangle with sides 5 m and 12 m. If the third side is a whole number of meters, what is the maximum possible length?

☐ A. 15 m

☐ B. 16 m

☐ C. 17 m

☐ D. 18 m



- 6) Which model correctly shows $5 + (-5) = 0$ using a chip diagram where red = positive and blue = negative?

Model A:



5 red + 2 blue

Model B:



5 red + 5 blue

- ☐ A. Model A ☐ C. Neither model
- ☐ B. Both models show the same thing ☐ D. Model B
- 7) A cube's edge length is s cm. If the surface area is 600 cm^2 , which equation correctly represents this relationship?
- ☐ A. $6s = 600$ ☐ C. $6s^2 = 600$
- ☐ B. $s^3 = 600$ ☐ D. $2s + 2s + 2s = 600$
- 8) Which expression is simplified?
- ☐ A. $3x + 2x - y$ ☐ C. $5x - y$
- ☐ B. $5x + 2x - y + y$ ☐ D. $2x + 3x + 4y$
- 9) A student factors $-8m - 12$ and gets $-4(2m + 3)$. Is this correct?
- ☐ A. Yes; $-4(2m + 3) = -8m - 12$ ☐ D. No; the correct factorization is $-4(2m - 3)$
- ☐ B. No; the GCF should be -2
- ☐ C. No; the correct factorization is $4(2m + 3)$



Scan me!
For more practice
& answers

1) What is $-\frac{1}{4} \times 8$?

☐ A. -8

☐ C. -2

☐ B. -4

☐ D. 2

2) Two histograms compare the quiz scores of morning and afternoon classes. The morning class shows bars centered around 85–90, while the afternoon class shows bars centered around 75–80. What does this suggest?

☐ A. Morning students scored higher on average

☐ C. Both classes performed equally well

☐ B. Afternoon students are smarter

☐ D. Quiz difficulty was higher for morning students

3) A construction worker needs to find the area of a lot shaped like a rectangle (16 yd $\times$ 12 yd) minus a triangular section (12 yd base, 4 yd height) cut from one corner. What is the usable area?

☐ A. 168 yd^2

☐ C. 192 yd^2

☐ B. 176 yd^2

☐ D. 216 yd^2

4) A box of tiles costs \$4.80 per box. If you need to cover an area and each box covers $\frac{1}{6}$ of the area, how much will you spend on tiles if you need to cover the entire area?



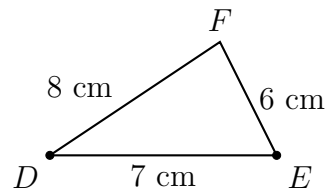
- 5) A triangular prism has a volume of 240 cm^3 and a depth of 10 cm. What is the area of the triangular base?

☐ A. 12 cm^2

☐ C. 36 cm^2

☐ B. 24 cm^2

☐ D. 48 cm^2



6)

Triangle DEF has sides $DE = 7 \text{ cm}$, $EF = 6 \text{ cm}$, and $FD = 8 \text{ cm}$. Is this triangle unique?

☐ A. No, infinitely many triangles have these side lengths

☐ C. No, SAS allows variation

☐ D. Yes, but only if we specify one angle

☐ B. Yes, SSS guarantees uniqueness

- 7) If two circles have the same radius, what can you say about their diameters?

☐ A. The diameters are different

☐ C. One diameter is twice the other

☐ B. The diameters are the same

☐ D. Cannot be determined



Scan me!

For more practice
& answers

California CAASPP 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 California CAASPP practice test.

Testinar.com



Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** (7.RP.3) Increase = $50\% \times \$10 = 0.50 \times \$10 = \$5$. New cost = $\$10 + \$5 = \$15$.
- 2) **Choice B is correct.** (7.G.4-7.G.6) Using $V = \pi r^2 h$: A: $3.14 \times (2)^2 \times 8 = 3.14 \times 4 \times 8 = 100.48 \text{ cm}^3$; B: $3.14 \times (3)^2 \times 6 = 3.14 \times 9 \times 6 = 169.56 \text{ cm}^3$; C: $3.14 \times (1)^2 \times 15 = 3.14 \times 1 \times 15 = 47.1 \text{ cm}^3$; D: $3.14 \times (2.5)^2 \times 4 = 3.14 \times 6.25 \times 4 = 78.5 \text{ cm}^3$. B is largest.
- 3) **Choice B is correct.** (7.SP.1-7.SP.4) Test 1's smaller range (15 vs. 40) indicates students' scores were closer together, showing more consistent performance despite identical means.
- 4) **Choice A is correct.** (7.SP.1-7.SP.4) Central angle = $\frac{60\%}{100\%} \times 360^\circ = 0.60 \times 360^\circ = 216^\circ$.
- 5) **Choice A is correct.** (7.SP.5-7.SP.8) Total socks = $6 + 4 = 10$. $P(\text{white}) = \frac{6}{10} = \frac{3}{5}$.
- 6) **Choice B is correct.** (7.SP.5-7.SP.8) Total outcomes: $3 \times 2 = 6$. Favorable (number > 1 and Tails): 2T, 3T. Probability: $\frac{2}{6} = \frac{1}{3}$.
- 7) **Choice B is correct.** (7.SP.3) Group 2's dots are positioned further to the right (at 3, 3.5, 4, 5, 5.5, 6, 6.5) compared to Group 1 (at 1, 1.5, 2, 2.5, 3.5), so the median of Group 2 is higher.
- 8) **Choice B is correct.** (7.SP.5-7.SP.8) This is the "gambler's fallacy." Each coin flip is independent, so the probability of tails on the next flip remains $\frac{1}{2}$ regardless of previous outcomes.
- 9) **Choice A is correct.** (7.SP.6) From the dot plot, 0 defects appears 4 times. Total items in sample: $4 + 3 + 2 + 1 = 10$. Experimental probability of no defects: $\frac{4}{10} = \frac{2}{5} = 0.40$.
- 10) **Choice C is correct.** (7.SP.1-7.SP.4) With 24 values (even), the upper half contains positions 13–24, which is 12 values.
- 11) **Choice B is correct.** (7.G.4-7.G.6) Start with the large rectangle: $12 \times 9 = 108 \text{ ft}^2$. Subtract the cutout rectangle: $4 \times 3 = 12 \text{ ft}^2$. Remaining area: $108 - 12 = 96 \text{ ft}^2$.
- 12) **Choice B is correct.** (7.G.4-7.G.6) Length = 20 cm. Width = $20/2 = 10 \text{ cm}$. Height = 10 cm. Volume = $20 \times 10 \times 10 = 2,000 \text{ cm}^3$.
- 13) **Choice B is correct.** (7.G.1-7.G.5) Both triangles have identical side lengths: 3, 4, and 5. The SSS (Side-Side-Side) condition guarantees congruence.
- 14) **Choice B is correct.** (7.G.4-7.G.6) An arc is a part of the circle's circumference. The curve from A to C is an arc.
- 15) **Choice A is correct.** (7.SP.5-7.SP.8) An event and its complement sum to 1. Here, $\frac{2}{3} + \frac{1}{3} = \frac{3}{3} = 1$, so both probabilities are correct.
- 16) **Choice C is correct.** (7.SP.1-7.SP.4) $\frac{35}{105} = \frac{x}{3150}$. Reduce: $\frac{1}{3} = \frac{x}{3150} \Rightarrow x = 1050$.
- 17) **Choice D is correct.** (7.NS.1-7.NS.3) $-1 - (-5) = -1 + 5 = 4$. Move right 5 units from -1 on the number line.
- 18) **Choice B is correct.** (7.SP.1-7.SP.4) $40\% \text{ of } 80 = 0.40 \times 80 = 32 \text{ households}$.
- 19) **The correct answer is -3.** (7.NS.1-7.NS.3) The opposite of -3 is 3, and the opposite of 3 is -3.
- 20) **Choice C is correct.** (7.RP.3) 50% is half; half of 200 is 100.
- 21) **The correct answer is A,D.** (7.RP.1-7.RP.3) A and D are unit rates because each gives a price per single unit of weight. Option B is a distance, and option C is a total count.
- 22) **Choice D is correct.** (7.RP.3) Markup percent = $\frac{\text{markup}}{\text{cost}} \times 100 = \frac{4}{8} \times 100 = 50\%$.
- 23) **Choice D is correct.** (7.RP.1-7.RP.3) Unit rate = $\frac{5/2}{1/3} = \frac{5}{2} \times 3 = \frac{15}{2} \text{ m/s}$.
- 24) **Choice D is correct.** (7.RP.1-7.RP.3) Proportional equations pass through origin: substitute $x = 0$, get $y = 0$. Only $y = -5x$ gives (0, 0).
- 25) **Choice D is correct.** (7.RP.1-7.RP.3) The variables were reversed. Since a represents apples and p represents price, price should depend on apples: $p = \frac{10}{4}a = 2.5a$, not $a = \frac{10}{4}p$.
- 26) **Choice D is correct.** (7.RP.1-7.RP.3) The point (1, 0.4) is the unit-rate point, so the constant of proportionality is $k = 0.4$. Therefore, the equation is $y = 0.4x$. (Verify: (5, 2) gives $2 = 0.4 \times 5$ ✓)
- 27) **The correct answer is -12.** (7.NS.2) $-9 \times \frac{4}{3} = \frac{-36}{3} = -12$.



Scan me!
For more practice
& answers

Hi, Math Hero!

◇ This carefully paced book gave you four steady Grade 7 practice tests, so you had repeated chances to build accuracy, pacing, and confidence. You showed up for Grade 7 practice again and again. That is what real growth looks like: steady effort, honest review, and a willingness to try. ◇

★ **Remember this:** A math hero is not someone who never misses a question. A math hero learns from the miss and comes back stronger. ★

Hero Habits

- **Courage:** You try problems that are not automatic.
- **Honesty:** You review what needs work.
- **Patience:** You let skills grow over time.
- **Pride:** You recognize the effort you gave.

Grade 7 test-day tip: Save one solved problem you are proud of. Looking back at progress helps motivation stay strong.

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

Jay Daie

Your Math Hero Guide

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes **4** 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:

4 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!



VISIT [TESTINAR.COM/MATH7](https://www.testinar.com/math7)

FOR MORE PRACTICE TESTS AND LEARNING RESOURCES.



PRACTICE
REGULARLY



STAY
FOCUSED



SOLVE
CONFIDENTLY



SUCCEED
BRIGHTLY