

8

California CAASPP

GRADE 7

MATH

PRACTICE TESTS

✓ Standards Aligned
Problem Solving

For Comprehensive
Assessment Programs



8 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 SKILLS



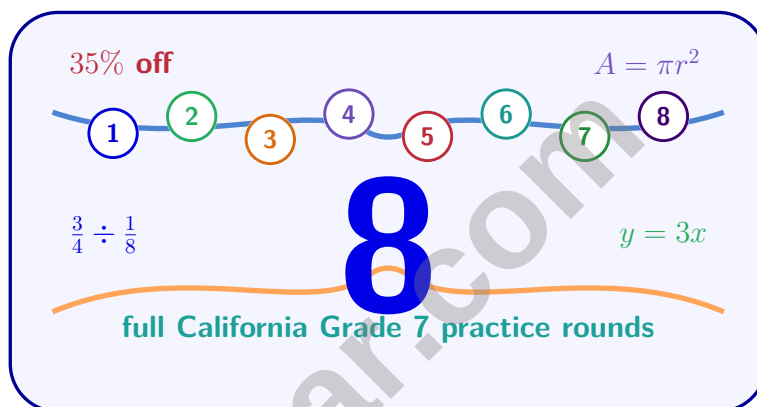
THINK SMARTER



BE TEST-READY

8 California CAASPP Grade 7 Math Practice Tests

Strong review across California Grade 7 rational numbers, algebraic thinking, geometric figures, data, and chance



Eight 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!

Eight focused rounds for sharper CAASPP math thinking

This book gives you eight 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

An eight-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?

Eight CAASPP tests, 320 questions, and a complete review path

Part	What You Will Practice
Tests 1–3	Proportional relationships, unit rates, percents, rational-number operations, and careful reading.
Tests 4–6	Expressions, equations, inequalities, scale drawings, geometry, and multi-step problem solving.
Tests 7–8	Statistics, probability, mixed review, stamina, and choosing efficient strategies.
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

+ -

.....

3

.....

× ÷

Testinar.com



Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	28
★ Practice Test 3	_____	43
★ Practice Test 4	_____	57
★ Practice Test 5	_____	72
★ Practice Test 6	_____	87
★ Practice Test 7	_____	100
★ Practice Test 8	_____	117
Practice Test Answer Keys	_____	132
Practice Test Answers and Explanations	_____	137

1)

Principal	Rate	Time (years)	Interest
\$500	3%	2	?

Based on the table above, how much interest will be earned?

☐ A. \$15☐ C. \$45☐ B. \$60☐ D. \$302) Solve for x : $x \div \frac{2}{3} = 9$.☐ A. 6☐ C. $\frac{2}{3}$ ☐ B. $13\frac{1}{2}$ ☐ D. $\frac{1}{6}$ 3) The temperature was -3°C at dawn. By noon, it had risen 18°C . What was the noon temperature?
4) A recipe uses $\frac{2}{3}$ cup of milk. If you double the recipe, how much milk do you need?☐ A. $\frac{2}{6}$ cup☐ C. $1\frac{1}{3}$ cups☐ B. $\frac{2}{3}$ cup☐ D. 2 cups5) Between which two consecutive integers does $\sqrt{40}$ lie? (Write your answer in the form "between a and b ")


- 6) Expand and simplify $4(2a + 1) - 3a$, then evaluate when $a = 2$.

- 7) Simplify: $\frac{a^7}{a^3}$

☐ A. a^{10}

☐ B. a^4

☐ C. $\frac{a^3}{a^7}$

☐ D. a^{21}

- 8) An art supplier sells canvas rolls at \$7 each. A shop owner spends \$84 on canvas rolls and pays a \$12 handling fee. Which equation finds r , the number of rolls purchased?

☐ A. $7r + 12 = 84$

☐ B. $7r = 84$

☐ C. $12r + 7 = 84$

☐ D. $7 + 12r = 84$

Step 1: $4x = 20$

(Divide by 4)

Step 2: $x = 5$

9)

What equation did Step 1 start from?

☐ A. $4x + 5 = 20$

☐ B. $4x - 5 = 15$

☐ C. $4x + 8 = 28$

☐ D. $4x - 4 = 16$



Scan me!

For more practice
& answers

10) A stem-and-leaf plot shows test scores:

Stem 6: Leaves 5, 8

Stem 7: Leaves 2, 4, 7, 9

Stem 8: Leaves 1, 3, 5, 6

Stem 9: Leaves 0, 2

How many students scored in the 80s?

☐ A. 2 students

☐ C. 4 students

☐ B. 3 students

☐ D. 5 students

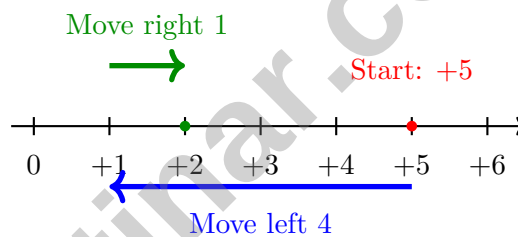
11) What is $\frac{1}{4}$ as a decimal?

☐ A. 0.14

☐ C. 0.4

☐ B. 0.25

☐ D. 0.5



12)

A number line shows a starting position of +5. A sequence of moves: left 4 units, then right 1 unit. What is the final position?

☐ A. +2

☐ C. -2

☐ B. +10

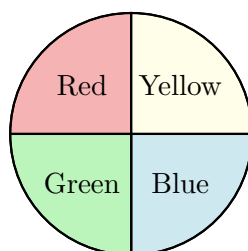
☐ D. +1



- 1) Three given side lengths are 4 cm, 5 cm, and 10 cm. How many distinct triangles can be formed?
- ☐ A. 0 ☐ C. 2
☐ B. 1 ☐ D. Infinitely many
- 2) A student solved $4x - 3 > 5$ and got $x > 2$. Which is the correct next step to verify this?
- ☐ A. Check $x = 2$: $4(2) - 3 = 5 \not> 5$ ✓, ☐ C. Check $x = 3$: $4(3) - 3 = 9 > 5$ ✓, so the boundary is correct. so values above 2 work.
☐ B. Check $x = 1$: $4(1) - 3 = 1 \not> 5$ ✓, ☐ D. Flip the sign: $x < 2$ (students must flip for negative coefficients). so values below 2 don't work.
- 3) What is the opposite of -15 ?
- ☐ A. 15 (correct) ☐ C. 0 (neither opposite nor equal)
☐ B. -15 (no sign change) ☐ D. $|-15|$ (absolute value, not opposite)
- 4) A compound event is defined as follows: "Flip a coin twice and record the results." If "success" is getting exactly one heads, how many successful outcomes are there in the sample space?
- ☐ A. 1 ☐ C. 3
☐ B. 2 ☐ D. 4



Scan me!
For more practice
& answers



5)

A spinner is divided into 4 equal sections: Red, Yellow, Blue, and Green. What is the probability of spinning Red or Green?

- ☐ A. $\frac{1}{4}$
☐ B. $\frac{1}{2}$

- ☐ C. $\frac{1}{3}$
☐ D. $\frac{3}{4}$

6) A letter is randomly selected from the word CAT, and a coin is flipped. Which table correctly represents the sample space?

	H	T
C	CH	CT
A	AH	AT
T	TH	TT

- ☐ A. 3 outcomes
☐ B. 4 outcomes

- ☐ C. 5 outcomes
☐ D. 6 outcomes

7) A test for a new medicine was conducted on 1000 patients. 850 patients showed improvement. What is the experimental probability that a patient will show improvement?

- ☐ A. 0.15
☐ B. 0.85

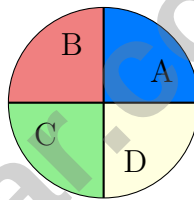
- ☐ C. 1.18
☐ D. 1.76



- 1) A laboratory tested a sample of 50 water bottles and found 5 leaked. If 10000 bottles were produced, about how many are expected to leak?

☐ A. 500 ☐ C. 1500
☐ B. 1000 ☐ D. 2000

- 2) A family's monthly expenses total \$2,500. If their monthly income is \$3,000, what percentage of their income do they spend?



3)

This spinner has four equal sectors. If you spin twice, which is $P(A \text{ then } B)$?

☐ A. $\frac{1}{4}$ ☐ C. $\frac{1}{16}$
☐ B. $\frac{1}{8}$ ☐ D. $\frac{2}{4}$

- 4) Which expression is equivalent to $12m + 18n$?

☐ A. $6(2m + 3n)$ ☐ C. $2(6m + 9n)$
☐ B. $6(12m + 18n)$ ☐ D. $12(m + 1.5n)$



Scan me!
For more practice
& answers

- 5) A marble is drawn from a bag, its color is recorded, and it is returned. After 800 draws, a blue marble was drawn 216 times. If the experiment is repeated with 1200 draws, approximately how many times would you expect to draw a blue marble?

☐ A. 324 ☐ C. 432
☐ B. 216 ☐ D. 648

- 6) The temperature in the morning was -8°C . It rose 15°C by afternoon. Then it dropped 5°C by evening. What was the evening temperature?

- 7) A survey shows there is a 20% chance that a student brings lunch to school. What is this probability as a simplified fraction?

☐ A. $\frac{20}{100}$ ☐ C. $\frac{1}{20}$
☐ B. $\frac{1}{5}$ ☐ D. $\frac{20}{80}$

- 8) A student is asked to evaluate $-3 - (-5)$ and writes:

Step 1: Change to addition: $-3 - (-5) = -3 - 5$

Step 2: Add the values: $-3 - 5 = -8$

Which statement is correct?

☐ A. Both steps are correct ☐ C. Step 2 is wrong; should be $-3 + 5 = 2$
☐ B. Step 1 is wrong; should be $-3 + 5$ ☐ D. Choices B and C are both correct



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 D is correct. (7.RP.3) $I = 500 \times 0.03 \times 2 = \30 .
- 2) Choice A is correct. (7.NS.1-7.NS.3) $x = 9 \times \frac{2}{3} = 6$.
- 3) The correct answer is 15. (7.NS.1b) $-3 + 18 = 15^\circ\text{C}$. A rise of 18° means adding 18 to the starting temperature.
- 4) Choice C is correct. (7.NS.1-7.NS.3) Double: $\frac{2}{3} \times 2 = \frac{4}{3} = 1\frac{1}{3}$ cups.
- 5) The correct answer is (6, 7). (7.NS.1-7.NS.3) $6^2 = 36$ and $7^2 = 49$. Since $36 < 40 < 49$, the answer is between 6 and 7.
- 6) The correct answer is 14. (7.EE.1-7.EE.2) The expression simplifies to $5a + 4$. With $a = 2$, the value is $10 + 4 = 14$.
- 7) Choice B is correct. (7.EE.1-7.EE.2) When dividing powers with the same base, subtract the exponents: $\frac{a^7}{a^3} = a^{7-3} = a^4$.
- 8) Choice A is correct. (7.EE.4a) Each roll costs \$7; handling fee is \$12. Equation: $7r + 12 = 84$, so $r = \frac{72}{7} \approx 10.3$ (or $r = 10$ full rolls).
- 9) Choice C is correct. (7.EE.3-7.EE.4) If $4x + 8 = 28$, subtracting 8 gives $4x = 20$, then dividing by 4 gives $x = 5$.
- 10) Choice C is correct. (7.SP.1-7.SP.4) Stem 8 has leaves 1, 3, 5, 6, representing scores 81, 83, 85, 86. That is 4 students in the 80s.
- 11) Choice B is correct. (7.NS.2d) Divide $1 \div 4 = 0.25$. This terminating decimal results because $4 = 2^2$.
- 12) Choice A is correct. (7.NS.1-7.NS.3) Final position = $5 - 4 + 1 = 2$.
- 13) Choice C is correct. (7.NS.1-7.NS.3) Proper scientific notation requires $1 \leq a < 10$. The coefficient 12.4 violates this rule.
- 14) Choice C is correct. (7.EE.3-7.EE.4) Subtract 7: $2x = 12$. Divide by 2: $x = 6$.
- 15) Choice C is correct. (7.G.1-7.G.5) Scale factor 1 : 3 means $\frac{\text{smaller}}{\text{larger}} = \frac{1}{3}$. So $\frac{5}{\text{larger}} = \frac{1}{3}$, giving $\text{larger} = 5 \times 3 = 15$ cm.
- 16) Choice C is correct. (7.SP.5-7.SP.8) Blue: 5 sections, red: 3 sections. Total favorable: $5 + 3 = 8$. $P(\text{blue or red}) = \frac{8}{12} = \frac{2}{3}$.
- 17) Choice A is correct. (7.NS.2) $0.4 \times 0.5 = 0.2$. Count total decimal places: $4 \times 5 = 20$, then place decimal to get $0.20 = 0.2$.
- 18) Choice A is correct. (7.EE.1-7.EE.2) The greatest common factor of all three terms is 2. Factoring it out: $2a + 2b + 2c = 2(a + b + c)$. This form shows that the same scale factor 2 is applied to each quantity.
- 19) Choice A is correct. (7.SP.3) Grade 6 clusters at 14–17 push-ups, showing all students perform at similar levels with room to improve together. Grade 7 spreads from 8–22, with some students already excelling (22) while others lag (8). A uniform group (Grade 6) has more opportunity for collective advancement.
- 20) The correct answer is A,C. (7.RP.3) A is mathematically correct; verify: $\text{year 1} = 1100$, $\text{year 2} = 1210$. C is the standard formula for finding interest earned. B contradicts compound principles. D is true only for year 1.
- 21) Choice C is correct. (7.RP.3) Nightly rate for 4 nights: $120 \times 4 = \$480$. Facility fee = $0.10 \times 480 = \$48$. Total = $480 + 48 = \$528$.
- 22) Choice B is correct. (7.G.4-7.G.6) Decompose the house shape into a rectangle and a triangular roof. Rectangle: $10 \times 5 = 50$ sq units. Triangle: $\frac{1}{2} \times 6 \times 3 = 9$ sq units. Add: $50 + 9 = 59$ sq units.
- 23) Choice D is correct. (7.RP.1-7.RP.3) Cost = $\frac{3}{4} \times 4 = 3$ dollars.
- 24) Choice C is correct. (7.G.4-7.G.6) Base area = $\frac{1}{2} \times 8 \times 9 = 36$ m². Volume = $36 \times 5 = 180$ m³.
- 25) Choice A is correct. (7.G.1-7.G.5) A right isosceles triangle has a 90° angle and two equal legs. The two acute angles are each $(180 - 90)/2 = 45^\circ$.
- 26) Choice B is correct. (7.G.1-7.G.5) The sum of angles in a triangle is 180° . Thus $\angle X = 180^\circ - 35^\circ - 60^\circ = 85^\circ$.
- 27) Choice B is correct. (7.G.4-7.G.6) A chord with length equal to the diameter must be the diameter itself, as the diameter is the longest possible chord in a circle.
- 28) Choice C is correct. (7.SP.5-7.SP.8) $\frac{1}{4} = 0.25 = 25\%$.



Scan me!
For more practice
& answers

Hi, Math Hero!

◇ This wide-ranging book gave you eight serious 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 **8** 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:

8 Full-Length Printed Tests

2 Online Practice Tests

 Detailed Answer 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



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Deeper Understanding

Reinforce key concepts with clear explanations and meaningful practice.



Test Confidence

Familiarize with test formats and improve accuracy and speed.



Achieve Success

Build confidence and perform your best on test day.

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** FOR MORE PRACTICE TESTS



PRACTICE
REGULARLY



STAY
FOCUSED



SOLVE
CONFIDENTLY



SUCCEED
BRIGHTLY