

6

CALIFORNIA CAASPP

GRADE

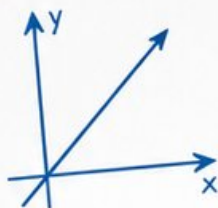
7

MATH

PRACTICE TESTS

Standards Aligned
Problem Solving For
Comprehensive
Assessment Programs

$$y = mx + b$$



$$2(x - 3) = 4x + 6$$



6 PRINTED
TESTS



2 ONLINE
TESTS



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



Build
Confidence



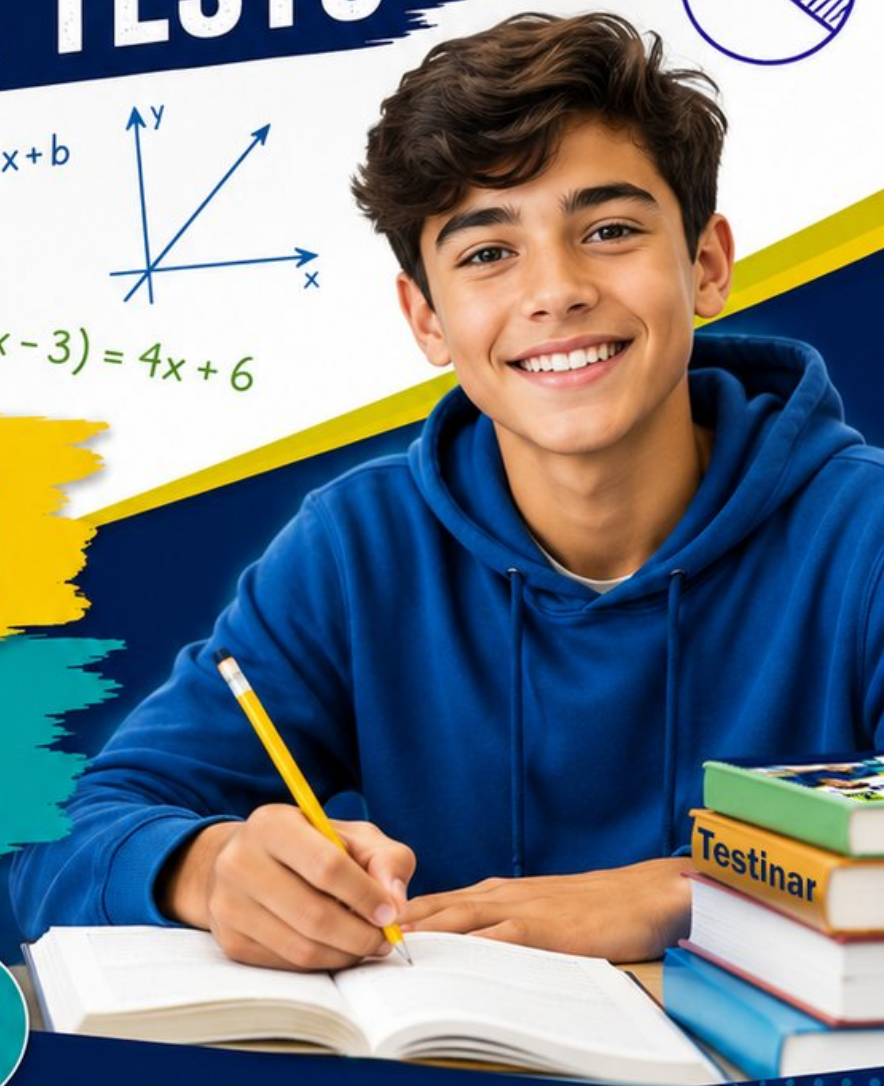
Strengthen
Math Skills



Detailed Answers
& Explanations



Improve Test
Performance



6 California CAASPP Grade 7 Math Practice Tests

Standards-Aligned CAASPP Practice with Keys and Explanations



Six 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



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Welcome, California Grade 7 Problem Solver!

Six focused rounds for sharper CAASPP math thinking

This book gives you six 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 six-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?

Six CAASPP tests, 240 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.
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

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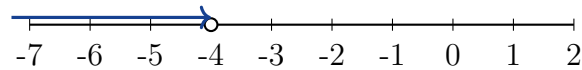
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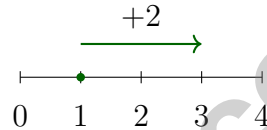
★ Practice Test 1	_____	14
★ Practice Test 2	_____	28
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- 1) Choose the correct number line for the inequality $n < -4$.



- ☐ A. Open circle at -4 pointing left ☐ C. Closed circle at -4 pointing left
☐ B. Open circle at -4 pointing right ☐ D. Closed circle at -4 pointing right
- 2) A recipe uses $\frac{3}{4}$ cup of milk for $\frac{1}{3}$ batch. How much milk is needed for a full batch?

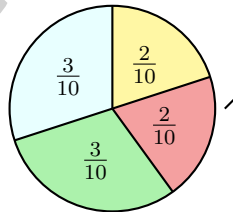
- ☐ A. $\frac{1}{9}$ cup ☐ C. $\frac{1}{4}$ cup
☐ B. 1 cup ☐ D. $2\frac{1}{4}$ cups



3)

The number line shows adding 2 to get the result. What was the original number?

- ☐ A. 0 ☐ C. 2
☐ B. 1 ☐ D. 3



4)

A spinner with four unequal sections is spun 350 times. Section A has probability $\frac{3}{10}$ and Section B has probability $\frac{2}{10}$. How many times would you expect to see either Section A or Section B?

- ☐ A. 70 times ☐ C. 140 times
☐ B. 105 times ☐ D. 175 times



- 5) A two-way table shows outcomes for tossing a coin and rolling a die showing 1, 2, or 3. What is the total number of outcomes?

	1	2	3
H	H1	H2	H3
T	T1	T2	T3

- ☐ A. 2 outcomes
 ☐ C. 5 outcomes
☐ B. 3 outcomes
 ☐ D. 6 outcomes
- 6) A running club tracks weekly mileage for two runners over 5 weeks:

Runner	5-Week Data	Conclusion
Alex	10, 12, 11, 13, 9	Mean = 11, MAD = 1.2
Blake	5, 20, 10, 15, 10	Mean = 12, MAD = 4.0

Which interpretation is correct?

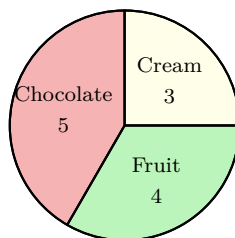
- ☐ A. Alex is more disciplined (consistent 11 mi/week)
 ☐ C. Both runners cover identical weekly distances
☐ B. Blake averages more miles per week
 ☐ D. Blake is more consistent
- 7) A bicycle wheel has diameter 0.6 meters. If the bike travels 30 meters, how many complete rotations did the wheel make? Use $\pi \approx 3.14$, round to the nearest whole number.



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& answers

8) A dot plot shows the number of text messages sent by students in one day. Which statement is BEST supported by the mode of the data?

- ☐ A. The average student sends many messages
- ☐ B. The most common number of messages sent is the mode
- ☐ C. Half the students send more than the mode
- ☐ D. The mode shows how spread out the data is



9)

A restaurant menu has 12 desserts: 5 chocolate, 4 fruit, and 3 cream-based. If you pick one at random, what is the probability of choosing a chocolate or cream-based dessert?

- ☐ A. $\frac{5}{12}$
- ☐ B. $\frac{8}{12}$
- ☐ C. $\frac{2}{3}$
- ☐ D. $\frac{1}{2}$

10) A tree diagram shows all outcomes for spinning a spinner with three colors and flipping a coin. How many total outcomes are displayed?

- ☐ A. 5
- ☐ B. 6
- ☐ C. 8
- ☐ D. 9



- 1) The table shows the relationship between minutes and pages copied.

Minutes	Pages
5	25
8	40
10	50

Write the equation for pages p in terms of minutes m .

- ☐ A. $p = \frac{m}{5}$ ☐ C. $p = 25m$
☐ B. $p = m + 20$ ☐ D. $p = 5m$

- 2) A jar contains 5 green marbles and 15 red marbles. You pick one without looking. Express the probability of picking a green marble as a fraction in simplest form.

- 3) A soccer team won 16 out of 20 games. What percent of games did they win?

- ☐ A. 64% ☐ C. 80%
☐ B. 75% ☐ D. 85%

- 4) A spinner is labeled with the numbers 1 through 10 (each on an equal section). If the spinner is spun 100 times, how many times would you expect it to land on an even number?



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- 5) Two similar right triangles have a hypotenuse of 13 cm in the smaller triangle and 19.5 cm in the larger triangle. If one leg of the smaller triangle is 5 cm, what is the length of the corresponding leg in the larger triangle?

☐ A. 7.5 cm ☐ C. 12 cm
☐ B. 10 cm ☐ D. 14.5 cm

- 6) A student has a $\frac{2}{3}$ probability of passing math and a $\frac{3}{4}$ probability of passing history. Assuming independence, what is the probability of passing EXACTLY ONE of these two subjects?

☐ A. $\frac{1}{2}$ ☐ C. $\frac{7}{12}$
☐ B. $\frac{5}{12}$ ☐ D. $\frac{11}{12}$

- 7) A nutritionist estimated 2200 calories per day but the actual need was 2000 calories. What is the percent error?

☐ A. 10% ☐ C. 200%
☐ B. 11% ☐ D. 90.9%

- 8) Expand and simplify: $7(t - 2) + 3(4 - t)$

☐ A. $4t - 2$ ☐ C. $6t + 12$
☐ B. $10t + 12$ ☐ D. $8t - 2$

- 9) Which is the simplest form of $8 - (-1)$?

☐ A. 7 ☐ C. -7
☐ B. -9 ☐ D. 9



- 1) A histogram shows the weights (in pounds) of 50 dogs. The intervals are 10–20 lbs, 20–30 lbs, 30–40 lbs, and 40–50 lbs, with frequencies 8, 15, 20, and 7. Which interval contains the mode?
- ☐ A. 10–20 lbs ☐ C. 30–40 lbs
☐ B. 20–30 lbs ☐ D. 40–50 lbs
- 2) A circular swimming pool has a radius of 6 meters. A safety rope covers the edge (circumference). If you want to place a cover over the entire pool, approximately how many square meters will the cover need? Use $\pi \approx 3.14$.
- ☐ A. 37.68 m² ☐ C. 113.04 m²
☐ B. 75.36 m² ☐ D. 226.08 m²
- 3) A class took two different exams. Exam 1: median = 78. Exam 2: median = 78. Exam 1 range = 25. Exam 2 range = 8. What can we infer?
- ☐ A. Exam 1 was harder ☐ C. Students performed identically on
☐ B. Exam 2 had more consistent both exams
student performance ☐ D. Exam 1 was easier
- 4) A bag contains 15 tokens: 9 green and 6 orange. Two students compute $P(\text{drawing green})$ differently: Student A: $\frac{9}{15} = \frac{3}{5}$. Student B: $\frac{9}{6} = \frac{3}{2}$. Who is correct?
- ☐ A. Both are correct. ☐ C. Only Student B is correct.
☐ B. Only Student A is correct. ☐ D. Neither is correct.



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& answers

5) Which expression shows the associative property of multiplication?

- ☐ A. $((-3) \times 2) \times 4 = (-3) \times (2 \times 4)$
☐ C. $(-2) \times 5 = 5 \times (-2)$
☐ B. $(-3) \times (2 \times 4) = (-3) \times (4 \times 2)$
☐ D. $3 \times (2 + 4) = (3 \times 2) + (3 \times 4)$

6) A price p increases by 7%. Write the new price in factored form.

- ☐ A. $p + 0.07p = p(1 + 0.07) = 1.07p$
☐ C. $0.07p$
☐ B. $p - 0.07p$
☐ D. $p + 7$

7) Triangle ABC has sides 13 cm, 5 cm, and 12 cm. Compute $13^2 - (5^2 + 12^2)$.

8) Two dot plots show monthly snowfall (in inches) for Mountain Town A and B. Town A: 2, 4, 4, 6, 6, 6, 6, 8, 10. Town B: 0, 1, 5, 8, 12, 14. The town council needs predictable snow for budget planning. Which town's snowfall is more predictable?

- ☐ A. Town A (data clusters at 4–8 inches)
☐ B. Town B (wider range allows better diversity)
☐ C. Town A's range (8 inches) is smaller, but Town B is more predictable due to higher peak values
☐ D. Town B (extreme values of 0 and 14 are more informative for planning)

9) A pair of fair dice is rolled once. What is the probability of rolling a sum of 7 OR a sum of 11?

- ☐ A. $\frac{6}{36}$
☐ C. $\frac{2}{36}$
☐ B. $\frac{8}{36}$
☐ D. $\frac{14}{36}$



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.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** (7.EE.4b) $n < -4$ uses an open circle (strict inequality) and points left toward smaller numbers.
- 2) **Choice D is correct.** (7.RP.1-7.RP.3) Unit rate: $\frac{3/4}{1/3} = \frac{3}{4} \times 3 = \frac{9}{4} = 2\frac{1}{4}$ cups per batch.
- 3) **Choice B is correct.** (7.EE.3-7.EE.4) The arrow starts at 1 and moves 2 units right to 3; original was 1.
- 4) **Choice D is correct.** (7.SP.5-7.SP.8) Section A: $\frac{3}{10} \times 350 = 105$. Section B: $\frac{2}{10} \times 350 = 70$. Combined: $105 + 70 = 175$ times.
- 5) **Choice D is correct.** (7.SP.5-7.SP.8) The table has 2 rows (H, T) and 3 columns (1, 2, 3). Total: $2 \times 3 = 6$ outcomes.
- 6) **Choice A is correct.** (7.SP.1-7.SP.4) Alex: mean 11, MAD 1.2 (very tight clustering). Blake: mean 12, MAD 4.0 (highly variable). Despite Blake's slightly higher average, Alex's low MAD shows consistent weekly effort, indicating greater discipline.
- 7) **The correct answer is 16.** (7.G.4-7.G.6) Circumference $= \pi d = 3.14 \times 0.6 = 1.884$ m. Rotations $= 30 \div 1.884 \approx 16$.
- 8) **Choice B is correct.** (7.SP.1-7.SP.4) The mode is the value that appears most frequently in a data set. It directly tells us which outcome is most common.
- 9) **Choice C is correct.** (7.SP.5-7.SP.8) Chocolate or cream-based: $5 + 3 = 8$. $P = \frac{8}{12} = \frac{2}{3}$.
- 10) **Choice B is correct.** (7.SP.5-7.SP.8) Spinner: 3 colors; Coin: 2 outcomes. Total: $3 \times 2 = 6$ branches at the end of the tree.
- 11) **Choice B is correct.** (7.SP.6) Experimental probability of both heads and rolling a 5: $\frac{18}{240} = \frac{3}{40} = 0.075$. The theoretical probability would be $\frac{1}{2} \times \frac{1}{6} = \frac{1}{12} \approx 0.083$, close to but not exactly the experimental result.
- 12) **Choice B is correct.** (7.SP.1-7.SP.4) Total: $2+3+4+2+4 = 15$ people. In 40s: 4 people. Percent: $4/15 \approx 0.267 \approx 25\%$ (closest).
- 13) **The correct answer is 153.86.** (7.G.4-7.G.6) $A = 3.14 \times 7^2 = 3.14 \times 49 = 153.86$ cm².
- 14) **Choice B is correct.** (7.SP.5-7.SP.8) $60\% = \frac{60}{100} = 0.6$.
- 15) **The correct answer is 188.4.** (7.G.4-7.G.6) Radius is half the diameter: $r = 3$ cm. Lateral area $= 2\pi rh \approx 2 \times 3.14 \times 3 \times 10 = 188.4$ cm².
- 16) **Choice C is correct.** (7.RP.3) A: $\frac{|27-30|}{30} \times 100\% = 10\%$. B: $\frac{|32-30|}{30} \times 100\% \approx 6.7\%$. C: $\frac{|36-30|}{30} \times 100\% = 20\%$. D: $\frac{|28-30|}{30} \times 100\% \approx 6.7\%$. Estimate C (20%) has the largest percent error.
- 17) **Choice C is correct.** (7.EE.1-7.EE.2) Distribute 3 to both terms: $3(x) + 3(5) = 3x + 15$.
- 18) **Choice C is correct.** (7.NS.1-7.NS.3) $-3 - 6 = -3 + (-6) = -9$. Move left 6 units from -3 .
- 19) **The correct answer is A, D.** (7.G.1-7.G.5) A is correct: $(3)^2 = 9$. D is correct: $(2.5)^2 = 6.25$. B is wrong: $(\frac{1}{2})^2 = \frac{1}{4}$. C is wrong: $\sqrt{16} = 4$, so the linear factor is 4, not the other way.
- 20) **Choice D is correct.** (7.RP.1-7.RP.3) Multiply: $18 \times 4 = 72$ feet. Student divided instead of multiplied (flipped the operation).
- 21) **Choice C is correct.** (7.NS.1b) Net change $= 48 + (-30) = 18$. There was a net gain of 18 customers.
- 22) **Choice C is correct.** (7.EE.1-7.EE.2) Check A: $-3(x+3) = -3x - 9$. Correct. Check B: $2(-y+4) = -2y + 8$. Correct. Check D: $-4(m+5) = -4m - 20$. Correct. Check C: $-5(a+3) = -5a - 15 \neq -5a + 15$. Incorrect. The correct factorization is $-5(a+3) = -5a - 15$.
- 23) **The correct answer is $4/5$.** (7.SP.1-7.SP.4) Simplify the fraction: $\frac{32}{40} = \frac{4}{5} = 0.8 = 80\%$. This sample statistic ($\frac{4}{5}$) is the point estimate used to predict the proportion of all customers who would recommend the restaurant.
- 24) **Choice B is correct.** (7.SP.1-7.SP.4) 12.5% of $360^\circ = 0.125 \times 360^\circ = 45^\circ$.
- 25) **Choice C is correct.** (7.RP.3) 50% of 160 is $0.50 \times 160 = 80$ items.
- 26) **Choice D is correct.** (7.RP.3) Discount amount $= 0.30 \times 25 = \$7.50$.
- 27) **Choice C is correct.** (7.EE.1) Combine: $\frac{1}{2}a + \frac{1}{4}a = \frac{2}{4}a + \frac{1}{4}a = \frac{3}{4}a$.
- 28) **Choice A is correct.** (7.EE.4b) "A number plus 8" translates to $x + 8$, and "is less than" translates to $<$.



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 6 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

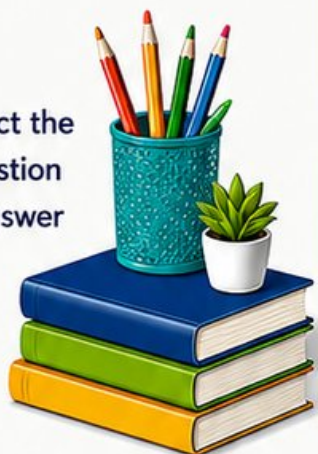
Your Persistence Coach

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes **6** 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:

6 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.



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Apply your knowledge and achieve your best score!

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- ✓ 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.



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