

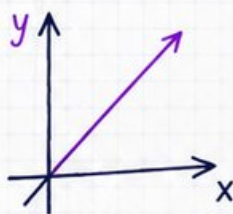
3

California CAASPP

GRADE
7
MATH

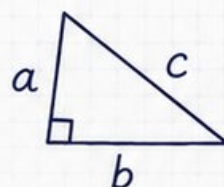
PRACTICE TESTS

- ✓ Standards Aligned
Problem Solving
For Comprehensive
Assessment Programs



$$y = mx + b$$

$$\frac{2}{3}x - \frac{4}{5} = \frac{1}{2}$$



$$3(x - 2) = 2x + 5$$



3 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



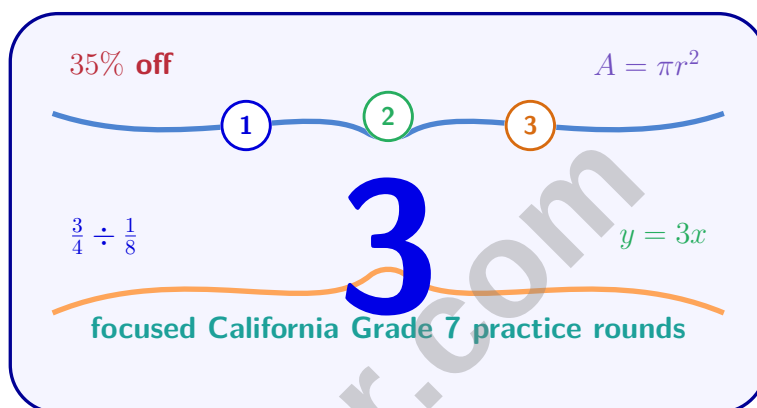
Detailed Answers
& Explanations



Improve Test
Performance

3 California CAASPP Grade 7 Math Practice Tests

Standards-Aligned CAASPP Review with Clear Explanations



Three 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!

Three focused rounds for sharper CAASPP math thinking

This book gives you three 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 three-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?

Three CAASPP tests, 120 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.
Test 3	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

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- 1) A recipe requires $\frac{2}{3}$ cup of sugar. If you make half the recipe, then add $\frac{1}{4}$ cup extra, how much sugar do you use?

- ☐ A. $\frac{3}{7}$ cup ☐ C. $1\frac{1}{12}$ cups
☐ B. $\frac{7}{12}$ cup ☐ D. $\frac{5}{12}$ cup

2)

Three Estimates Comparison Table

Test	Estimate	Actual	Percent Error
Trial 1	36	40	?
Trial 2	76	80	?
Trial 3	99	100	?

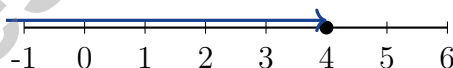
Which trial has the smallest percent error?

- ☐ A. Trial 1 ☐ C. All equal
☐ B. Trial 2 ☐ D. Trial 3

- 3) Expand: $4(2x - 3)$

- ☐ A. $6x - 12$ ☐ C. $8x - 3$
☐ B. $8x - 12$ ☐ D. $6x - 7$

- 4) Solve $2x - 1 \leq 7$ and select the correct graph.



- ☐ A. Closed circle at 4 pointing left ☐ C. Closed circle at 4 pointing right
☐ B. Open circle at 4 pointing left ☐ D. Open circle at 4 pointing right



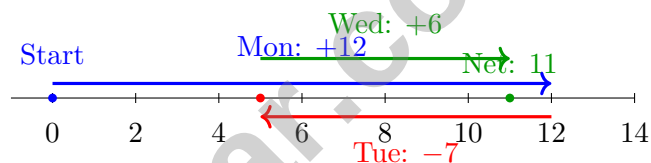
5) A map uses a scale of 1 centimeter : 50 kilometers. If two cities are 3.5 cm apart on the map, what is the actual distance between them?

- ☐ A. 53.5 km ☐ C. 175 km
☐ B. 140 km ☐ D. 200 km

6) A certificate of deposit (CD) grows from \$3000 to \$3450 over 3 years using simple interest. What is the annual interest rate?

- ☐ A. 4% ☐ C. 5%
☐ B. 4.5% ☐ D. 5.5%

7) A warehouse inventory shows: gained 12 boxes Monday, lost 7 boxes Tuesday, gained 6 boxes Wednesday. What is the net change?



- ☐ A. -25 boxes ☐ C. 11 boxes
☐ B. -11 boxes ☐ D. 25 boxes

8) A rectangular prism has surface area 250 cm^2 . If length = 10 cm and width = 5 cm, what is the height?

- ☐ A. 5 cm ☐ C. 7.5 cm
☐ B. 10 cm ☐ D. 12.5 cm



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9) If 12 is 15% of a number, what is the number?

☐ A. 60

☐ C. 80

☐ B. 72

☐ D. 100

10) A sweater is priced at \$80. A customer uses a coupon for 15% off. What is the sale price?

☐ A. \$65

☐ C. \$64

☐ B. \$76

☐ D. \$68

11) Are the expressions $12a - 5a + 3a$ and $10a$ equivalent?

☐ A. Yes, because $12 - 5 + 3 = 10$.

☐ C. Yes, both are equal to $10a$.

☐ B. No, because the coefficients are different.

☐ D. No, because $12a - 5a + 3a$ cannot be simplified.

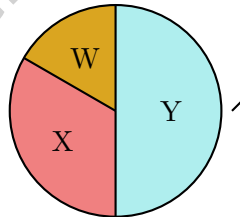
12) What is the GCF of $6xy$ and $9y$?

☐ A. $3y$

☐ C. $9y$

☐ B. $6y$

☐ D. $3xy$



13)

The spinner above has 3 sections. Section W is $\frac{1}{6}$ of the circle, section X is $\frac{1}{3}$ of the circle, and section Y is the remaining part. If the spinner is spun 60 times, approximately how many times would you expect to land on section Y?

☐ A. 10 times

☐ C. 30 times

☐ B. 20 times

☐ D. 40 times

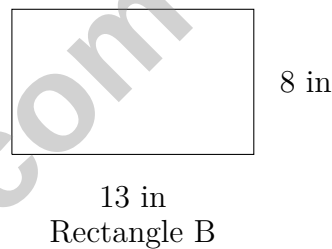
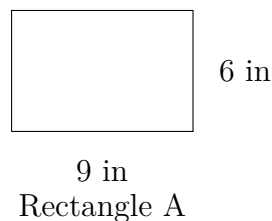


1) A blueprint uses a scale of $\frac{1}{8}$ inch : 1 foot. If a wall in the blueprint is 2 inches long, what is the actual length of the wall?

- ☐ A. 8 feet ☐ C. 16 feet
☐ B. 12 feet ☐ D. 20 feet

2) A triangle with vertices $A(1, 1)$, $B(4, 1)$, and $C(1, 4)$ is translated by vector $(-1, 2)$. What are the coordinates of the image of vertex A ?

- ☐ A. $(0, 3)$ ☐ C. $(1, 1)$
☐ B. $(2, 3)$ ☐ D. $(0, 1)$



3)

A student claims the two rectangles are similar because the difference in length is 4 inches and the difference in width is 2 inches. Which statement is correct?

- ☐ A. The rectangles are similar; the student's reasoning is correct. ☐ C. The rectangles are similar; the scale factor is $\frac{4}{3}$.
☐ B. The rectangles are not similar; the student used additive reasoning instead of multiplicative. ☐ D. The student is correct about the relationship but made a calculation error.



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- 4) If a circle's circumference is $\frac{132}{7}$ meters, using $\pi \approx \frac{22}{7}$, what is its radius?
- ☐ A. 2 m ☐ C. 4 m
☐ B. 3 m ☐ D. 6 m
- 5) A circular pool has a radius of 9 feet. What is the area of the pool's surface? Use $\pi \approx 3.14$.
- ☐ A. 56.52 ft² ☐ C. 254.34 ft²
☐ B. 113.04 ft² ☐ D. 1017.36 ft²
- 6) A soup can has a radius of 2 inches and a height of 4 inches. What is the volume of the can? Use $\pi \approx 3.14$.
- ☐ A. 25.12 in³ ☐ C. 75.36 in³
☐ B. 50.24 in³ ☐ D. 100.48 in³
- 7) A school must choose between two lunch-line systems. System A averages 8 minutes wait with MAD 0.5 minutes. System B averages 8.2 minutes with MAD 1.8 minutes. For student experience, which is better?
- ☐ A. System B (slightly faster average) ☐ C. Both are equally acceptable
☐ B. System A (consistent experience, predictable waits) ☐ D. Requires knowing the number of students
- 8) A dot plot shows quiz scores: 70 (one student), 75 (two students), 80 (four students), 85 (two students), 90 (one student). Which statement is correct?
- ☐ A. The median is 70 ☐ C. The median is 85
☐ B. The median is 80 ☐ D. The median is 90



- 1) A rope of length $\frac{5}{6}$ meter is cut into pieces, each $\frac{1}{12}$ meter long. How many pieces are there?
- ☐ A. 5 pieces ☐ C. 15 pieces
☐ B. 10 pieces ☐ D. 20 pieces
- 2) A classroom has 15 boys and 10 girls. A student is chosen at random. What is $P(\text{girl})$?
- ☐ A. $\frac{10}{25}$ ☐ C. $\frac{1}{2}$
☐ B. $\frac{2}{3}$ ☐ D. $\frac{3}{5}$
- 3) A construction contractor charges a \$500 deposit plus \$75 per hour of labor. A job takes 20 hours. What is the total cost?
- ☐ A. \$1, 200 ☐ C. \$1, 800
☐ B. \$1, 500 ☐ D. \$2, 000
- 4) A car travels at a constant speed passing through the origin and the point (2, 140) on a distance-time graph (where x = hours and y = miles). What is the unit rate in miles per hour?
-
- 5) Two friends compare investments: — Friend A: invests \$400 at 10% compound interest for 2 years. — Friend B: invests \$400 at 10% simple interest for 2 years. How much more does Friend A earn?
- ☐ A. \$0 (equal) ☐ C. \$20
☐ B. \$80 ☐ D. \$4



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6)

Savings	Expenses
\$400/month	\$1600/month

Based on the diagram, what percent of a \$2 000 monthly income goes to savings?

- ☐ A. 10% ☐ C. 20%
☐ B. 15% ☐ D. 25%

7)

Before	After
\$100	\$160

A before-and-after bar diagram shows a quantity increasing from \$100 to \$160. What is the percent increase?

- ☐ A. 40% ☐ C. 37.5%
☐ B. 62.5% ☐ D. 60%

8) A number line arrow starts at -6 and ends at 9 . What integer was added?

- ☐ A. -15 ☐ C. 3
☐ B. -3 ☐ D. 15

9) A triangular prism has a right triangular base with legs 6 in and 8 in (hypotenuse 10 in). The prism is 12 in long. What is the surface area?

- ☐ A. 216 in^2 ☐ C. 336 in^2
☐ B. 288 in^2 ☐ D. 420 in^2



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 B is correct.** (7.NS.1-7.NS.3) Half the recipe: $\frac{2}{3} \div 2 = \frac{1}{3}$ cup. Find common denominator 12: $\frac{1}{3} = \frac{4}{12}$ and $\frac{1}{4} = \frac{3}{12}$. Add: $\frac{4}{12} + \frac{3}{12} = \frac{7}{12}$ cup.
- 2) **Choice D is correct.** (7.RP.3) Trial 1: $\frac{4}{40} \times 100\% = 10\%$. Trial 2: $\frac{4}{80} \times 100\% = 5\%$. Trial 3: $\frac{1}{100} \times 100\% = 1\%$. Trial 3 is smallest.
- 3) **Choice B is correct.** (7.EE.1-7.EE.2) Distribute 4 to both terms: $4(2x) - 4(3) = 8x - 12$. (Positive times negative gives negative.)
- 4) **Choice A is correct.** (7.EE.4b) Solving: $2x - 1 \leq 7$ gives $2x \leq 8$, so $x \leq 4$. A closed circle at 4 with a left arrow shows all values less than or equal to 4.
- 5) **Choice C is correct.** (7.RP.1-7.RP.3) Multiply the map distance by the scale factor: $3.5 \times 50 = 175$ km.
- 6) **Choice C is correct.** (7.RP.3) Interest: $3450 - 3000 = \$450$. $450 = 3000 \times r \times 3 \Rightarrow 450 = 9000r \Rightarrow r = 0.05 = 5\%$.
- 7) **Choice C is correct.** (7.NS.1b) Net change = $12 + (-7) + 6 = 12 - 7 + 6 = 5 + 6 = 11$ boxes. The warehouse has a net gain of 11 boxes.
- 8) **Choice A is correct.** (7.G.4-7.G.6) $SA = 2(lw + lh + wh) = 250$. $2(50 + 10h + 5h) = 250 \Rightarrow 50 + 15h = 125 \Rightarrow 15h = 75 \Rightarrow h = 5$ cm.
- 9) **Choice C is correct.** (7.RP.3) If $12 = 0.15 \times n$, then $n = \frac{12}{0.15} = 80$.
- 10) **Choice D is correct.** (7.RP.3) Discount = $0.15 \times 80 = \$12$. Sale price = $80 - 12 = \$68$.
- 11) **Choice A is correct.** (7.EE.1) Simplify the left side: $(12 - 5 + 3)a = 10a$, which equals the right side. Both expressions are equivalent.
- 12) **Choice A is correct.** (7.EE.1-7.EE.2) GCF of 6 and 9 is 3. Both terms contain y . GCF is $3y$.
- 13) **Choice C is correct.** (7.SP.5-7.SP.8) W: $\frac{1}{6}$, X: $\frac{1}{3} = \frac{2}{6}$, Y: $1 - \frac{1}{6} - \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$. Expected frequency: $\frac{1}{2} \times 60 = 30$.
- 14) **Choice D is correct.** (7.RP.3) Simple interest = $P \times r \times t = \$1,000 \times 0.05 \times 1 = \50 .
- 15) **Choice C is correct.** (7.EE.1-7.EE.2) Product of 2 and n is $2n$. Three more than $2n$ is $3 + 2n$.
- 16) **Choice A is correct.** (7.EE.1-7.EE.2) Combine like terms: $(-3q + 8q) + (-7 + 2) = 5q - 5$.
- 17) **Choice A is correct.** (7.EE.1-7.EE.2) Quotient rule: $\frac{n^9}{n^4} = n^{9-4} = n^5$.
- 18) **Choice A is correct.** (7.EE.4b) Total spending (book + pen) must not exceed \$50, so $12 + p \leq 50$.
- 19) **Choice B is correct.** (7.G.1-7.G.5) Original scale 1:12 means 1 in = 12 ft. New scale 1:6 means 1 in = 6 ft. Real-world distance per inch halved (12 to 6), so drawing expands. Scale factor ratio: $6 \div 12 = 0.5$, so drawing expands by $1 \div 0.5 = 2$. New dimensions: $3.5 \times 2 = 7$ in and $4.5 \times 2 = 9$ in.
- 20) **The correct answer is A,C.** (7.SP.1-7.SP.4) City A dark roast (42%) > City B dark roast (38%), so A is correct. City B light roast (40%) > City A light roast (35%), so C is correct. B is wrong (survey size not given). D is wrong (A: 23%, B: 22%).
- 21) **Choice D is correct.** (7.G.1-7.G.5) A plane can intersect a cube in a hexagon if it cuts through all six faces. This occurs when a plane passes through two opposite edges at an appropriate angle.
- 22) **Choice A is correct.** (7.G.1-7.G.5) Complementary angles sum to 90° : $x = 90 - 34 = 56^\circ$.
- 23) **Choice A is correct.** (7.SP.1-7.SP.4) Only people who choose to respond to the Facebook survey are included. This typically includes people with strong opinions (positive or negative), making it non-representative.
- 24) **Choice D is correct.** (7.RP.1-7.RP.3) The constant of proportionality is \$0.10 per minute, so $c = 0.10m$.
- 25) **Choice D is correct.** (7.RP.1-7.RP.3) From (2, 1.2), $k = 1.2 \div 2 = 0.6$. Verify: (4, 2.4) gives $2.4 \div 4 = 0.6$; (6, 3.6) gives $3.6 \div 6 = 0.6$. Unit rate is 0.6.
- 26) **Choice C is correct.** (7.RP.3) Using the proportion $\frac{120}{100} = \frac{d}{1}$ where d is the decimal, divide: $\frac{120}{100} = 1.2$.
- 27) **The correct answer is 15.** (7.NS.1-7.NS.3) The temperature drop is $3 - (-12) = 3 + 12 = 15$ degrees.
- 28) **Choice B is correct.** (7.NS.1-7.NS.3) $2\frac{2}{5} = \frac{12}{5}$. Then $\frac{12}{5} \div \frac{4}{5} = \frac{12}{5} \times \frac{5}{4} = \frac{12}{4} = 3$.
- 29) **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.



Hi, Momentum Builder!

◇ Finishing a Grade 7 practice book is not a small thing. It means you practiced persistence, patience, and flexible problem solving. ◇

★ **Remember this:** Some questions were quick. Others probably made you stop and think. Both kinds helped you grow because practice turns effort into confidence. This version gave you 3 opportunities to rehearse test-day habits. ★

Momentum Habits

- **Start Clean:** Write down what the problem gives you.
- **Pick a Tool:** Use a table, model, equation, or graph.
- **Keep Moving:** Skip and return when needed.
- **Review Smart:** Study mistakes without judging yourself.

Grade 7 test-day tip: If a problem feels stuck, change tools. A graph, table, or sketch can make the same idea clearer.

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

Jay Daie

Your Math Momentum Partner

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes **3** 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:

3 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.



Detailed Answers & Explanations

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



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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!



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