

10

California CAASPP

GRADE
7
MATH

PRACTICE TESTS

Standards Aligned Problem
Solving For Comprehensive
Assessment Programs



10 PRINTED TESTS

Realistic practice to build
confidence and mastery



2 ONLINE TESTS

Extra practice for
continued success



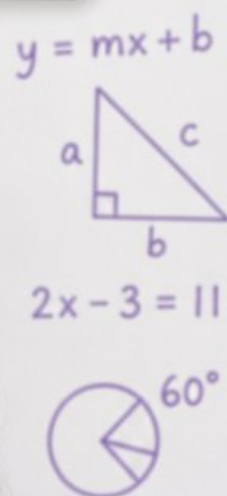
DETAILED ANSWER EXPLANATIONS

Learn with step-by-step
solutions



FOCUSED & EFFECTIVE

Target key math skills
with purposeful practice



10 PRINTED TESTS
+2 ONLINE TESTS

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

PRACTICE ★ REVIEW ★ SUCCEED

10 California CAASPP Grade 7 Math Practice Tests

California Grade 7 CAASPP Practice for coast-to-classroom readiness in ratios, percents, algebra, geometry, statistics, and probability



Ten 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!

Ten focused rounds for sharper California CAASPP math thinking

This book gives you ten 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 ten-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?

Ten California CAASPP tests, 400 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 7–9	Statistics, probability, mixed review, stamina, and choosing efficient strategies.
Test 10	A final California round to show growth across the whole book.
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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& answers

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- 1) A student incorrectly calculates the circumference of a circle with radius 4 m by using the formula $C = \pi r^2$. Using $\pi \approx 3.14$, what incorrect answer did the student get?

- ☐ A. 12.56 m ☐ C. 50.24 m
☐ B. 25.12 m ☐ D. 100.48 m

- 2) Express π using the two common Grade 7 approximations.

- 3) If a scale drawing has a scale of 2 : 5, which of the following is true?

- ☐ A. The drawing is smaller than the actual object. ☐ C. The drawing and the object are the same size.
☐ B. The drawing is larger than the actual object. ☐ D. Cannot be determined without more information.

- 4) A store has 800 items in inventory. During a sale, 35% of the items are sold. How many items remain in inventory?

- ☐ A. 280 items ☐ C. 520 items
☐ B. 480 items ☐ D. 700 items

- 5) A galaxy is 2.3×10^{19} miles away. Which statement best describes this distance?

- ☐ A. A distance on Earth's surface ☐ D. A distance of about 2.3 million miles
☐ B. A distance within our solar system
☐ C. An extremely vast distance beyond our solar system

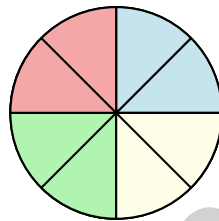


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6)

Trial	1	2	3	4	5
Successes	22	28	25	27	23
Trials per Run	100	100	100	100	100

Five separate simulations each perform 100 trials and record the number of successes. What is the average estimated probability across all five simulations?

☐ A. 0.23☐ C. 0.27☐ B. 0.25☐ D. 0.30

7)

A spinner has 8 equal sections: 2 blue, 2 red, 2 green, 2 yellow. What is the probability of NOT landing on blue or red?

☐ A. $\frac{4}{8}$ ☐ C. $\frac{2}{8}$ ☐ B. $\frac{3}{8}$ ☐ D. $\frac{6}{8}$

8) A student chooses a shirt from 5 options and pants from 3 options. How many different outfits are possible?

☐ A. 8☐ C. 20☐ B. 15☐ D. 25

9) A number cube is rolled and a coin is flipped. What is $P(\text{rolling a 4 and flipping tails})$?

☐ A. $\frac{1}{12}$

☐ C. $\frac{1}{6}$

☐ B. $\frac{1}{8}$

☐ D. $\frac{7}{12}$

10) A dataset has a minimum value of 34 and a maximum value of 89. If displayed in a stem-and-leaf plot with two-digit stems, how many stems would be needed?

☐ A. 5

☐ C. 7

☐ B. 6

☐ D. 8

11) **Attendance Prediction**

Event	Predicted	Actual
Concert	500	625

What is the percent error for the concert attendance prediction?

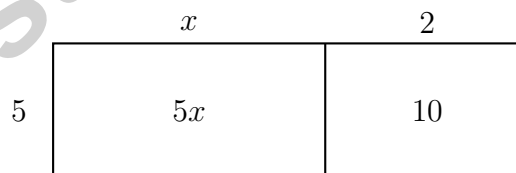
☐ A. 80%

☐ C. 20%

☐ B. 15%

☐ D. 25%

12) The rectangle below is divided into two regions to model $5(x + 2)$. What is the total area?



☐ A. $5x + 10$

☐ C. $7x$

☐ B. $5x + 2$

☐ D. $x + 7$



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Equivalence Table

Form 1	Form 2	Value
$x - 0.25x$	$0.75x$	\$60

1)

Using the equivalence table, if both forms equal \$60, what is x ?

☐ A. $x = 45$

☐ C. $x = 80$

☐ B. $x = 75$

☐ D. $x = 100$

2) A ticket costs \$24. The price increases by 25%. What is the new ticket price?

3) An investment account earns 7% simple interest per year. If someone invests \$3,000, how much interest will they earn after 3 years?

4) A student compared two dot plots and made this claim: "Distribution A has a median of 50 and Distribution B has a median of 55, so B is always greater." Identify the error.

☐ A. Median is typical value, not a guarantee; distributions can overlap

☐ C. Distribution A must be higher

☐ B. Medians are always accurate

☐ D. Comparison requires ranges, not medians


- 5) Raw data: 55, 52, 58, 51, 56, 53, 59. After creating a stem-and-leaf plot and ordering, what is the value at the second position?
- ☐ A. 51 ☐ C. 53
☐ B. 52 ☐ D. 55
- 6) A platform is designed as two congruent trapezoids joined at their parallel sides. Each trapezoid has parallel sides of 6 m and 4 m with height 3 m. What is the total platform area?
- ☐ A. 15 m^2 ☐ C. 45 m^2
☐ B. 30 m^2 ☐ D. 60 m^2
- 7) A prism has a base area of 72 ft^2 and a volume of 576 ft^3 . What is its height?
- ☐ A. 6 ft ☐ C. 12 ft
☐ B. 8 ft ☐ D. 504 ft
- 8) Identify which pair are NOT like terms.
- ☐ A. $6a^2$ and $9a^2$ ☐ C. $-3y$ and $4y$
☐ B. $5x$ and $5x^2$ ☐ D. $2mn$ and mn
- 9) Which factorization is correct?
- ☐ A. $10x + 15 = 5(2x + 3)$ ☐ C. $10x + 15 = 10(x + 1.5)$
☐ B. $10x + 15 = 2(5x + 7.5)$ ☐ D. $10x + 15 = 3(3x + 5)$
- 10) A cube has surface area 600 cm^2 . What is its edge length?
- ☐ A. 5 cm ☐ C. 100 cm
☐ B. 10 cm ☐ D. 3600 cm



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1) A jacket costs \$120. It is on sale for 15% off. What is the sale price?

☐ A. \$18

☐ C. \$105

☐ B. \$108

☐ D. \$102

2) A circle graph shows how a family spends its monthly budget. Rent is 30%, food is 25%, utilities is 15%, and savings is 30%. Which categories tie for the largest sector?

☐ A. Food and Utilities

☐ C. Rent and Savings

☐ B. Utilities and Savings

☐ D. Food and Rent

3) Which of the following is a *parameter*?

☐ A. The median age of 80 randomly selected shoppers at the mall

☐ C. The percentage of 500 surveyed households that use streaming services

☐ B. The average height of all students in a school

☐ D. The standard deviation of a sample of test scores

4) Solve: $2(x + 3) = 14$

☐ A. $x = 2$

☐ C. $x = 4$

☐ B. $x = 3$

☐ D. $x = 7$

5) Solve for x : $-5(x + 2) = 20$

☐ A. $x = -6$

☐ C. $x = 2$

☐ B. $x = -4$

☐ D. $x = 6$

6) Solve: $-3(x + 2) = 9$

☐ A. $x = -5$

☐ C. $x = 1$

☐ B. $x = -3$

☐ D. $x = 3$



7) A map shows two cities that are $\frac{3}{4}$ inch apart. The scale is $\frac{1}{2}$ inch : 10 miles. What is the actual distance between the cities?

☐ A. 10 miles

☐ C. 20 miles

☐ B. 15 miles

☐ D. 30 miles

8) A rectangular patio in a landscape design is 4 inches by 5 inches at scale 1 in : 3 ft. What is the perimeter of the actual patio in feet?

☐ A. 18 ft

☐ C. 54 ft

☐ B. 27 ft

☐ D. 30 ft

9) In a spinning experiment, a spinner was spun 120 times. One section appeared 36 times. If the spinner is spun 360 more times (total 480 spins), and that same section appears 108 more times (total 144 appearances), what is the new experimental probability? Express as a fraction in simplest form.

10) A photograph has dimensions 6 inches by 8 inches. It is enlarged so that the longer side becomes 20 inches. What is the length of the shorter side after enlargement?

☐ A. 12 inches

☐ C. 15 inches

☐ B. 14 inches

☐ D. 16 inches



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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 C is correct.** (7.G.4-7.G.6) Using the area formula by mistake: $\pi r^2 = 3.14 \times 4^2 = 3.14 \times 16 = 50.24$ m (incorrect; correct circumference is $2\pi r = 25.12$ m).
- 2) **The correct answer is 3.14, $22/7$.** (7.G.4-7.G.6) The two standard approximations are the decimal 3.14 and the fraction $\frac{22}{7}$ (which equals approximately 3.143).
- 3) **Choice A is correct.** (7.G.1-7.G.5) A scale of 2 : 5 means the drawing is 2 units for every 5 units of the actual object, so the drawing is smaller.
- 4) **Choice C is correct.** (7.NS.1-7.NS.3) Items sold = $0.35 \times 800 = 280$ items. Remaining: $800 - 280 = 520$ items.
- 5) **Choice C is correct.** (7.NS.1-7.NS.3) The large positive exponent 19 indicates an astronomical distance far beyond our solar system.
- 6) **Choice B is correct.** (7.SP.5-7.SP.8) Total successes: $22 + 28 + 25 + 27 + 23 = 125$. Total trials: $5 \times 100 = 500$. Average estimated probability: $\frac{125}{500} = 0.25$.
- 7) **Choice A is correct.** (7.SP.5-7.SP.8) Blue or red: $\frac{4}{8}$. Not blue or red: $1 - \frac{4}{8} = \frac{4}{8} = \frac{1}{2}$.
- 8) **Choice B is correct.** (7.SP.5-7.SP.8) By the counting principle: 5 shirts $\times$ 3 pants = 15 different outfits.
- 9) **Choice A is correct.** (7.SP.5-7.SP.8) $P(4 \text{ and tails}) = \frac{1}{6} \cdot \frac{1}{2} = \frac{1}{12}$.
- 10) **Choice B is correct.** (7.SP.1-7.SP.4) The values use stems 3, 4, 5, 6, 7, and 8, so 6 stems are needed.
- 11) **Choice C is correct.** (7.RP.3) Percent error = $\frac{|500-625|}{625} \times 100\% = \frac{125}{625} \times 100\% = 20\%$.
- 12) **Choice A is correct.** (7.EE.1-7.EE.2) The rectangle shows two parts: $5x$ and 10. Total: $5x + 10$.
- 13) **Choice D is correct.** (7.RP.3) $20 = 250 \times 0.04 \times t \Rightarrow 20 = 10t \Rightarrow t = 2$ years. Convert to months: $2 \times 12 = 24$ months.
- 14) **Choice A is correct.** (7.NS.1-7.NS.3) $6 - (-1) = 6 + 1 = 7$.
- 15) **The correct answer is 157.** (7.G.4-7.G.6) $V = \pi r^2 h \approx 3.14 \times (2.5)^2 \times 8 = 3.14 \times 6.25 \times 8 = 157 \text{ m}^3$.
- 16) **Choice D is correct.** (7.RP.1-7.RP.3) Actual dimensions: $5 \times 4 = 20$ feet; $3 \times 4 = 12$ feet. Area = $20 \times 12 = 240$ sq ft.
- 17) **Choice C is correct.** (7.NS.1b) Starting at -2 and jumping right to 6 means moving right by 8 units (from -2 to 0 is 2, then 0 to 6 is 6, total $2 + 6 = 8$). So $-2 + 8 = 6$.
- 18) **Choice C is correct.** (7.EE.1) Like terms must have the same variables with the same exponents. $2xy^2$ has x^1y^2 , while $6xy$ has x^1y^1 . The exponents on y differ, so they are not like terms. Options A and D are clearly like $6xy$. Option B, $9yx$, equals $9xy$ by commutativity, so it is also a like term with $6xy$.
- 19) **The correct answer is A,B.** (7.G.4-7.G.6) A is correct: volume $V = B \times h$ for any prism. B is correct: $V = 4^3 = 64 \text{ cm}^3$. C is false: doubling height doubles volume, not triples it. D is false: a triangular prism can have larger volume than a rectangular prism depending on dimensions.
- 20) **Choice C is correct.** (7.SP.1-7.SP.4) 23% of 3200 = $0.23 \times 3200 = 736$ students.
- 21) **The correct answer is 75–85.** (7.SP.3) Overlap at 75–85 demonstrates that distributions can have different centers and spreads while still sharing common values. A higher median does not mean every value in one group exceeds every value in the other.
- 22) **Choice D is correct.** (7.RP.3) 5% of 200 is $0.05 \times 200 = 10$.
- 23) **Choice D is correct.** (7.EE.1-7.EE.2) Substitute: $4(3) - 5 + 2 = 12 - 5 + 2 = 9$.
- 24) **Choice A is correct.** (7.EE.4b) When dividing by a negative number, always flip the inequality sign. Here: $-5x \geq 20 \Rightarrow x \leq -4$.
- 25) **Choice D is correct.** (7.RP.1-7.RP.3) From unit rate (1, 0.65), at $x = 4$, $y = 4 \times 0.65 = \$2.60$.
- 26) **Choice C is correct.** (7.RP.3) Final price = $\$80 - (15\% \times \$80) = \$80 - \$12 = \$68$.
- 27) **Choice C is correct.** (7.NS.1-7.NS.3) Common denominator 6: $-\frac{4}{6} - \frac{5}{6} = -\frac{9}{6} = -\frac{3}{2} = -1\frac{1}{2}$.
- 28) **Choice A is correct.** (7.NS.1-7.NS.3) $24 \div (-8) = -3$ and $(-24) \div 8 = -3$. Both quotients are the same.
- 29) **The correct answer is $\frac{8}{3}$.** (7.SP.1-7.SP.4) The ratio is $8 \div 3 = \frac{8}{3}$.
- 30) **Choice B is correct.** (7.NS.1-7.NS.3) New level: $-3 + 1 = -2$ meters.



Hi, Math Hero!

◇ This full-length book gave you ten complete 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 10 full-length Math practice tests and 2 extra 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:

10 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
- ✓ Fractions & Decimals
- ✓ Percents
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ And More!



2 EXTRA 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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SUCCEED
BRIGHTLY

PRACTICE ★ REVIEW ★ SUCCEED