

8

California CAASPP

GRADE 6

MATH

PRACTICE TESTS

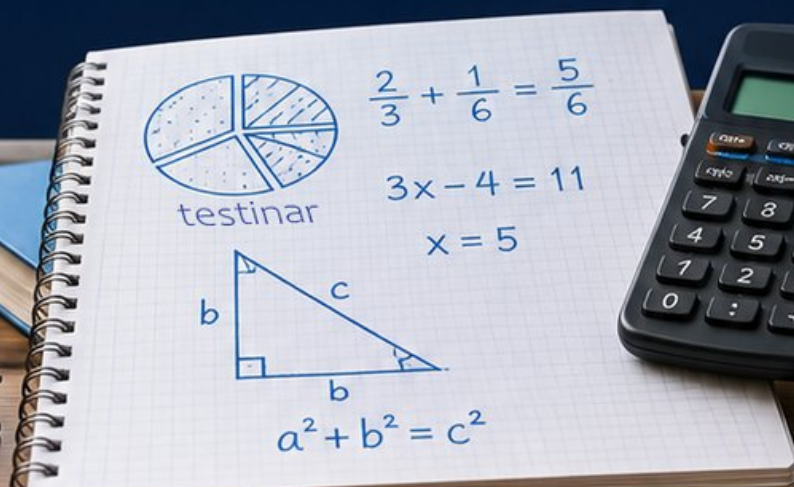
8
PRINTED
TESTS

+

2
ONLINE
TESTS

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

Standards-Aligned *Steady Southern* Problem Solving for Comprehensive Assessment Program



BUILT FOR
ACAP SUCCESS



REALISTIC TESTS
& QUESTION TYPES



STRENGTHEN
MATH SKILLS



REVIEW, PRACTICE,
AND IMPROVE

8 California CAASPP Grade 6 Math Practice Tests

Standards-Aligned Coast-To-Mountain Problem Solving for California Assessment of Student Performance and Progress



Eight complete 40-question Grade 6 practice rounds for CAASPP, built for coast-to-mountain problem solving with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, California Math Explorer!

Eight focused rounds using coast-to-mountain problem solving

This book gives you eight full Grade 6 practice tests for CAASPP. Each round uses coastal routes, valley grids, and mountain switchbacks as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your California Practice Promise

Read like a navigator: follow labels, track units, and prove why the answer fits.

Read

Plan

Check

How to Use This Book

A eight-session routine for coast-to-mountain problem solving

1. **Work in order.** Take one 40-question test at a time in a quiet place.
2. **Preview the skills.** Scan the quick review pages before beginning the first round.
3. **Correct actively.** Retry missed items before reading the full explanation.
4. **Mark confidence.** Put a small star beside problems where your plan felt strong.
5. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.

California review rhythm: Alternate full tests with review days so every correction becomes a new strategy.



What Is Inside?

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

Part	What You Will Practice
Tests 1–3	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 4–6	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Tests 7–8	Final stamina rounds for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Coast-to-mountain problem solving means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.

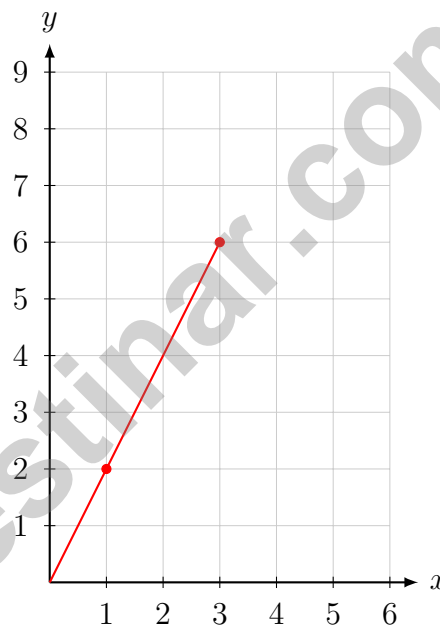


Scan me!
For more practice
& answers

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- 1) A grocery bill shows 8 apples for \$4.80. A shopper claims the unit price is \$4.80 per apple. What is wrong with this answer?
- A. The shopper used the total cost instead of dividing by quantity
- B. The shopper forgot to convert to cents
- C. The shopper used the wrong number of apples
- D. The answer is actually correct
- 2) The graph below shows a proportional relationship.



Which equation matches this graph?

- A. $y = 2x$
- B. $y = x + 2$
- C. $y = 3x$
- D. $y = x + 1$



- 3) A parallelogram has a base of 8 m and a height of 5 m. What is its area?
- A. 13 m^2 C. 40 m^2
 B. 26 m^2 D. 80 m^2
- 4) A net shows 5 faces. Can this net form a pyramid or prism?
- A. Rectangular pyramid with a triangular base C. Triangular prism
 B. Square pyramid D. Cannot determine
- 5) A student made an error. She computed $5.2 \times 3 = 156$. What should the correct answer be?
- A. 15.6 C. 2.17
 B. 1.56 D. 156.0
- 6) Which statement is true?
- A. $(-2, 3)$ is in Quadrant III C. $(-5, -6)$ is in Quadrant III
 B. $(4, -1)$ is in Quadrant II D. $(3, 2)$ is in Quadrant IV
- 7) In the expression shown, what is the sum of all coefficients?

Expression: $6a + 2b - 4c$

 ↓ ↓ ↓
Coeff: 6 Coeff: 2 Coeff: -4

- A. 4 C. 0
 B. 12 D. -4



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8) What is the value of $\frac{3x}{2}$ when $x = 4$?

A. 5

C. 8

B. 6

D. 12

9) Write $\frac{3}{4}$ as a decimal.

10) Which expression is equivalent to $5(4 - x)$?

A. $20 - x$

C. $20 + x$

B. $4 - 5x$

D. $20 - 5x$

11) Which step would you use first to solve $\frac{x}{3} = 8$?

A. Divide both sides by 3

C. Add 3 to both sides

B. Multiply both sides by 3

D. Subtract 3 from both sides

12) A rectangular prism has a rectangular base with area 20 cm^2 and the height is 3 cm. What is the volume?

A. 23 cm^3

C. 60 cm^3

B. 40 cm^3

D. 80 cm^3



- 1) A student found the volume of a rectangular prism with dimensions $\frac{5}{2}$ m, 3 m, and 4 m. They calculated $\frac{5}{2} \times 3 = 7.5$ and then stopped. What is the correct volume?
- A. 7.5 m^3 C. 22.5 m^3
 B. 15 m^3 D. 30 m^3

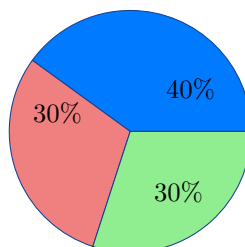
- 2) A back-to-back stem-and-leaf plot shows:

Class A	Stem	Class B
9, 7, 5	6	1, 3, 4
8, 6, 2	7	0, 5, 7, 9

What is the range for Class A?

- A. 13 C. 22
 B. 20 D. 25
- 3) A rectangular prism has length 8 m, width 5 m, and height 3 m. If you want to find the lateral surface area (excluding top and bottom), which formula is correct?
- A. $2(8 + 5) \times 3$ C. $2(8)(3) + 2(5)(3)$
 B. $2(8)(5) + 2(5)(3)$ D. $(8)(5) + (5)(3) + (8)(3)$
- 4) A data set has values: 5, 7, 7, 7, 9, 9, 12, 12, 12, 12, 15. What is the mode?
- A. 5 C. 7
 B. 9 D. 12





5)

In the circle graph, what is the central angle of the largest section if it represents 40%?

- A. 108° C. 144°
 B. 120° D. 160°

6) Find the mean of 48, 50, 52, 49, 51, 50, 48. Round to the nearest tenth.

7) What is the x -coordinate of any point on the positive y -axis?

- A. Any positive number C. Zero
 B. Any negative number D. One

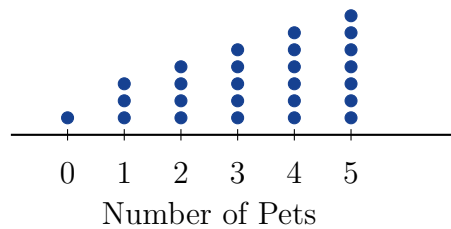
8) A student says the coefficient of x in $x + 5$ is 0 because there is no number in front of x . Is this correct?

- A. Yes, when no number is written, the coefficient is 0. C. No, the coefficient is the constant 5.
 B. No, when no number is written, the coefficient is 1. D. Yes, but only if x appears at the end.



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- 1) A dot plot shows the number of pets owned by families in a neighborhood. The data displays a left-skewed pattern. This means:



- A. Most families have fewer pets, with fewer families having more pets
- B. Most families have many pets, with fewer families having fewer pets
- C. The data is evenly distributed
- D. All families have the same number of pets
- 2) A trapezoid with bases of 16 in and 12 in has a height of 9 in. What is the area?
- A. 28 in²
- B. 126 in²
- C. 144 in²
- D. 252 in²
- 3) A school is organizing a field day. Events are scheduled every 20 minutes for one activity and every 30 minutes for another. If both activities start at the same time, when will they start together again? (Give answer in minutes.)



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4) A rectangular aquarium has volume 50 liters, width $\frac{5}{2}$ dm, and height 4 dm. Find the length.

A. 2 dm

B. 20 dm

C. 10 dm

D. 5 dm

5) Simplify the expression with mixed operations: $3(2y) + 4y - y$.

A. $8y$

B. $10y$

C. $6y$

D. $9y$

6) Solve for x : $\frac{x}{1.5} = 8$

A. $x = 12$

B. $x = 6.5$

C. $x = 9.5$

D. $x = 5.33$

7) Which inequality best represents “the value is at least 15”?

A. $v < 15$

B. $v \leq 15$

C. $v > 15$

D. $v \geq 15$



California CAASPP Practice Test Answer Keys

How to use this California CAASPP answer section with a Grade 6 student:

1. check the answer first, then write one quick reason the choice is correct
2. mark questions to try again, especially the skills that feel connected to coast-to-mountain problem solving
3. rework the problem before reading the full explanation, using this reminder:
Read like a navigator: follow labels, track units, and prove why the answer fits.

A calm California correction routine turns every missed item into useful practice. Alternate full tests with review days so every correction becomes a new strategy.



Scan me!
For more practice
& answers

California Practice Test Answers and Explanations

Review the eight printed CAASPP tests with flexible, prepared, and ready for a new route habits.

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** (6.RP.2) The correct unit price is $\$4.80 \div 8 = \0.60 per apple. The shopper stated the total cost as if it were per item, skipping the division step.
- 2) **Choice A is correct.** (6.EE.9) The line passes through (1, 2) and (3, 6). The slope is $\frac{6-2}{3-1} = \frac{4}{2} = 2$, giving $y = 2x$.
- 3) **Choice C is correct.** (6.G.1) Area of a parallelogram = base \times height = $8 \times 5 = 40 \text{ m}^2$.
- 4) **Choice B is correct.** (6.G.4) A square pyramid has 1 square base and 4 triangular faces, totaling 5 faces. This matches a net with 5 faces.
- 5) **Choice A is correct.** (6.NS.3) $52 \times 3 = 156$. Since 5.2 has one decimal place, the product is 15.6.
- 6) **Choice C is correct.** (6.NS.8) The point $(-5, -6)$ has both negative coordinates, placing it in Quadrant III. The other points are incorrectly placed.
- 7) **Choice A is correct.** (6.EE.4) Sum: $6 + 2 + (-4) = 4$. Note: when including negative coefficients, add them with their signs.
- 8) **Choice B is correct.** (6.EE.3) Substitute $x = 4$: $\frac{3(4)}{2} = \frac{12}{2} = 6$.
- 9) **The correct answer is 0.75.** (6.EE.8) $3 \div 4 = 0.75$.
- 10) **Choice D is correct.** (6.EE.3) Distribute: $5(4 - x) = 5 \cdot 4 - 5 \cdot x = 20 - 5x$.
- 11) **Choice B is correct.** (6.EE.5) To undo division, multiply. This isolates x on the left side.
- 12) **Choice C is correct.** (6.G.2) $V = B \times h = 20 \times 3 = 60 \text{ cm}^3$.
- 13) **The correct answer is 101.** (6.EE.8) The least whole number greater than 100 is 101.
- 14) **Choice B is correct.** (6.G.1) Base: $10 - 1 = 9$ units. Height: $6 - 1 = 5$ units. Area = $\frac{1}{2} \times 9 \times 5 = 22.5$ square units.
- 15) **Choice A is correct.** (6.SP.2) The student only added; the mean requires dividing by the count: $\frac{30}{3} = 10$.
- 16) **Choice D is correct.** (6.SP.3) Distances from mean 5 are $|2 - 5| = 3$, $|4 - 5| = 1$, $|6 - 5| = 1$, $|8 - 5| = 3$. Sum = 8. MAD = $8/4 = 2$. Diego showed the correct formula. Anna, Ben, and Carla each made a calculation or sign error.
- 17) **Choice C is correct.** (6.SP.4) The mode (16 days, frequency 4), individual frequencies, and the median can be read directly from the dot plot. Total attendance (the sum of attendance \times frequency) requires calculation and might vary based on interpretation; it cannot be determined without additional calculation.
- 18) **The correct answer is A and C are correct.** (6.RP.3) A: $6 \times 3 = 18$ feet (correct). B: $4 \times 3 = 12$ feet, not 10 (incorrect). C: $21 \div 3 = 7$ inches (correct). D: $9 \div 3 = 3$ inches, not 2 (incorrect). E: $5 \times 3 = 15$ feet, not 16 (incorrect).
- 19) **Choice D is correct.** (6.RP.1) Q_1 is the left edge of the box.
- 20) **Choice C is correct.** (6.SP.5) Since mean ($\$500$) $>$ median ($\$480$), there are high outliers (special high-sales days) pulling the mean up above the median.
- 21) **Choice C is correct.** (6.NS.3) Total combinations = $3 \times 4 \times 2 = 24$.
- 22) **Choice D is correct.** (6.RP.3) The bars for 2 visits and 3 visits have heights of 3 and 4 respectively. Total: $3 + 4 = 7$ students.
- 23) **Choice D is correct.** (6.RP.1) The 1 loss part stands for 4 losses, so each ratio part is worth 4. Wins are 4 parts, and $4 \times 4 = 16$ wins.
- 24) **Choice C is correct.** (6.RP.1) Divide total cost by number of notebooks: $6.40 \div 8 = 0.80$ dollars per notebook.
- 25) **Choice A is correct.** (6.RP.3) Shaded portion is 75% of the total. If 75% equals 75 students, then $100\% = \frac{75}{0.75} = 100$ students.
- 26) **Choice D is correct.** (6.RP.3) Ratio 7 : 4 with width 20 cm: each part is $20 \div 4 = 5$ cm. Length is $7 \times 5 = 35$ cm.
- 27) **Choice C is correct.** (6.NS.2) $3,672 \div 18 = 204$. Check by multiplying: $18 \times 204 = 18 \times 200 + 18 \times 4 = 3,600 + 72 = 3,672$.
- 28) **Choice D is correct.** (6.SP.4) Opposites have equal absolute values. $|-8| = 8$ and $|8| = 8$, so $8 + 8 = 16$.



Cheer Squad Final Pep Talk

Hi, Math Star!

◇ 8 practice tests! That's a LOT of work, and you did it ALL. I am cheering so loud right now. You earned every clap and every cheer! ◇

★ **Cheerleader truth:** confidence is built by showing up. You showed up 8 times. That's real confidence. It is not pretend! ★

Cheer Roll Call

- **Effort:** 100% YOU SHOWED UP!
- **Heart:** BIG!
- **Skills:** STRONG and growing!
- **Spirit:** BRIGHT!

Cheer tip: on test day, be your own cheerleader. Whisper to yourself: "I can do this. I practiced." Tiny cheers make a big difference!

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

Jay Daie

Your Math Cheerleader

MASTER MATH. ACE YOUR TESTS.

This Grade 6 Math Practice Tests book is designed to help students build confidence, strengthen math skills, and excel on comprehensive assessments.

With 8 full-length printed tests and 2 online tests, this resource provides realistic practice, a variety of question types, and detailed answer explanations to help students achieve their best.

Perfect for classroom use, homework, test preparation, and extra practice at home.



PERFECT FOR

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Building Confidence

★ PRACTICE TODAY.
SUCCEED TOMORROW.

WHAT STUDENTS WILL GAIN



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Understand Key Concepts

Reinforce important math ideas aligned with standards.



Test Confidence

Get familiar with test formats and improve accuracy.



Achieve Success

Build confidence and perform your best on test day.

TOPICS COVERED

- ✓ Ratios & Rates
- ✓ Percents
- ✓ The Number System
- ✓ Statistics & Probability
- ✓ Expressions & Equations
- ✓ Data Analysis
- ✓ Geometry
- ✓ Measurement & Conversions
- ✓ Fractions & Decimals
- ✓ And More!



2 ONLINE TESTS

Extra online practice to reinforce learning and build confidence.

MORE PRACTICE. GREATER RESULTS.

Give your child the tools needed to develop strong math skills, confidence, and a positive attitude toward learning.



8 FULL-LENGTH
PRACTICE TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS