

6

California CAASPP

GRADE

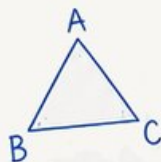
6

MATH

PRACTICE TESTS

Standards-Aligned
Steady Southern
Problem Solving for
Comprehensive
Assessment Program

$$2x + 3 = 11$$



$$7^2 = 49$$

BUILD SKILLS.
GAIN CONFIDENCE.
SUCCEED!



6 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



6 PRINTED TESTS +2 ONLINE TESTS

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



PRACTICE

Sharpen skills with targeted practice tests



REVIEW

Understand concepts and strengthen skills



SUCCEED

Build confidence and achieve your best

6 California CAASPP Grade 6 Math Practice Tests

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



Six 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 six 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 six-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 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 3–5	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 6	Final stamina round 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) Write an expression for “a number b more than 12”.

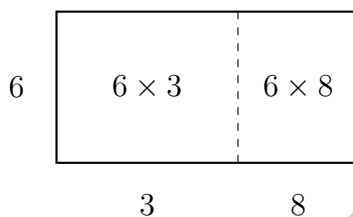
A. $12 - b$

C. $12b$

B. $b - 12$

D. $12 + b$

2) An area model is shown below. Which factored expression does it represent?



A. $6(3 + 8) = 66$

C. $(6 + 3)(6 + 8) = 154$

B. $3(6 + 8) = 42$

D. $6(3 \times 8) = 144$

3) The opposite of the opposite of 8 is:

A. 8

C. 0

B. -8

D. 16

4) What are the coordinates of a point on the positive x -axis?

A. $(0, 5)$

C. $(-3, 0)$

B. $(0, -2)$

D. $(4, 0)$

5) The distance between points $(b, 10)$ and $(b, 2)$ is 8 units. The points have the same x -coordinate. What value of b makes this true?

A. Only $b = 0$

C. Only $b = 6$

B. Only $b = 1$

D. Any value of b works



6) What is $\frac{-20}{4}$?

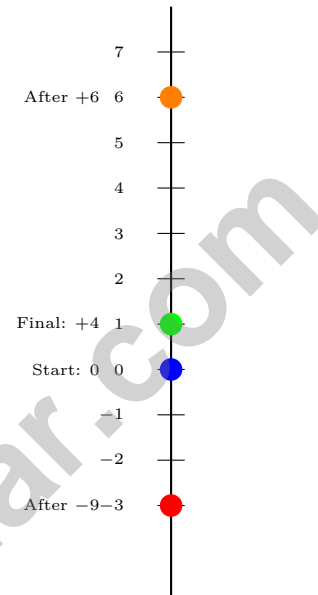
A. 5

B. 4

C. -4

D. -5

7) An elevator in a building starts at ground level (floor 0), goes up 6 floors, then down 9 floors, then up 4 floors. What floor is it on?



A. Floor -1

B. Floor 6

C. Floor 19

D. Floor 1

8) Which statement correctly identifies all the factors in $6xy$?

A. 6 only

B. x and y

C. 6, x , and y

D. xy



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& answers

- 9) A school has s students. It also has $s + 25$ staff members. If the school has 600 students, how many staff members does it have?

- 10) Evaluate $-3y$ when $y = -4$.

- A. -12 C. 12
 B. -7 D. -1

- 11) Simplify $7p + 2q - 3p + 5q$.

- A. $10p + 3q$ C. $4p + 5q$
 B. $7p + 7q$ D. $4p + 7q$

- 12) Check whether $x = 5$ is a solution to $2x = 10$.

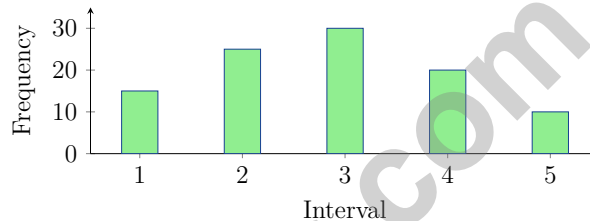
- A. Yes, because $2 \times 5 = 10$ C. No, because $5 - 2 = 3$
 B. No, because $5 + 2 = 7$ D. Yes, because $10 \div 2 = 5$

- 13) A student must score at least 80% to earn a B grade. Which value does NOT earn a B?

- A. 80% C. 79.9%
 B. 85% D. 90%



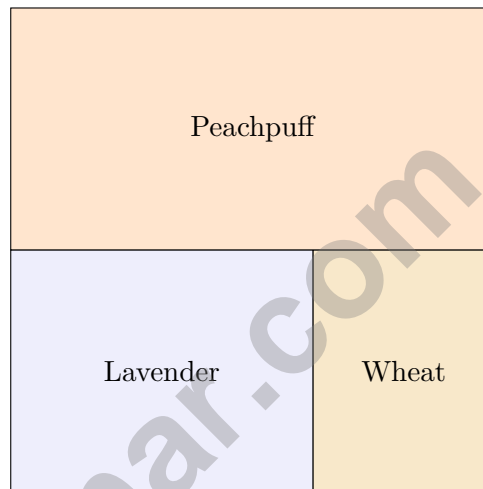
- 1) Points $A(-2, 1)$ and $B(4, 1)$ lie on a coordinate plane. What is the distance between them?
- A. 4 units C. 6 units
 B. 5 units D. 7 units
- 2) A histogram is divided into five equal intervals for a set of 100 data points. The frequencies are: Interval 1: 15; Interval 2: 25; Interval 3: 30; Interval 4: 20; Interval 5: 10. What is the frequency for Interval 3?



- A. 15 C. 30
 B. 20 D. 25
- 3) A data analyst looks at two side-by-side box plots. Plot A has $Q_1 = 10$, median = 20, $Q_3 = 30$. Plot B has $Q_1 = 15$, median = 20, $Q_3 = 25$. Which conclusion is INCORRECT?
- A. Both datasets have the same median.
 B. Dataset A has a larger IQR than Dataset B.
 C. Dataset B's lower whisker is longer than Dataset A's.
 D. Both datasets have the same spread.



- 4) A statistical question about favorite sports should ask about one student or a group of students?



5)

A square is chosen at random from the grid. What is the probability that it is wheat-colored?

- A. $\frac{3}{32}$ C. $\frac{3}{8}$
 B. $\frac{3}{16}$ D. $\frac{1}{2}$



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For more practice
& answers

- 1) The temperature at 6:00 AM was -8° C. By noon, it had risen 22° C. What was the temperature at noon?
- A. -30° C C. 14° C
 B. -14° C D. 30° C
- 2) A recipe calls for \$12 worth of ingredients. The ingredients are on sale for 25% off. How much will the ingredients cost?
- A. \$3 C. \$9
 B. \$6 D. \$12
- 3) A farmer harvests 288 pounds of wheat in 4 hours. What is the rate in pounds per hour?
- A. 72 pounds per hour C. 60 pounds per hour
 B. 70 pounds per hour D. 284 pounds per hour
- 4) Mika used long division to solve $4,284 \div 22$ and got 194 remainder 16. Is Mika's answer correct?
- A. Yes, it is correct. C. No; the remainder is 14.
 B. No; the quotient is 195. D. No; the answer is 194 remainder 2.
- 5) A bank account balance is $-\$50$ (overdrawn). A deposit of \$120 is made. What is the new balance?

Balance: $-\$50$

↓ Deposit $+\$120$

New Balance: ?

- A. $-\$170$ C. \$70
 B. $-\$70$ D. \$170



Scan me!
For more practice
& answers

6) A student earns \$8 per hour. If the student works h hours, which expression shows the total earnings?

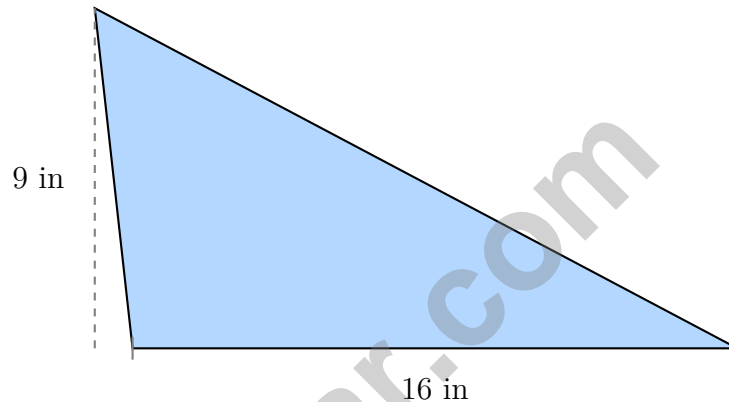
A. $h + 8$

B. $h - 8$

C. $8h$

D. $\frac{8}{h}$

7) An obtuse triangle has a perpendicular height of 9 inches measured to the extended base line. The base is 16 inches. What is the area?



A. 25 in^2

B. 72 in^2

C. 144 in^2

D. 288 in^2

8) A bag contains 9 marbles. If the probability of drawing a green marble is $\frac{1}{3}$, how many green marbles are in the bag?



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.



California Practice Test Answers and Explanations

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

Practice Test 1 Answers and Explanations

- Choice D is correct. **6.EE.3** “ b more than 12” means we add b to 12, giving $12 + b$.
- Choice A is correct. **6.NS.4** The rectangle shows a common factor of 6 with addends 3 and 8. The area is $6 \times 3 + 6 \times 8 = 18 + 48 = 66 = 6(3 + 8)$. Choice A is correct.
- Choice A is correct. **6.SP.4** Opposite of 8 is -8 . Opposite of -8 is 8. Double opposites return to the original.
- Choice D is correct. **6.NS.8** Points on the x -axis have a y -coordinate of 0. For a point to be on the positive x -axis, the x -coordinate must be positive. The point $(4, 0)$ satisfies both conditions.
- Choice D is correct. **6.NS.8** Distance: $|10 - 2| = 8$ units. The x -coordinate b can be any value; distance depends only on differing coordinates.
- Choice D is correct. **6.NS.3** A negative divided by a positive is negative: $\frac{-20}{4} = -5$.
- Choice D is correct. **6.EE.3** Elevator position: $0 + 6 - 9 + 4 = 1$ (floor 1).
- Choice C is correct. **6.EE.4** Since $6xy = 6 \times x \times y$, the factors are all three: 6, x , and y .
- The correct answer is 625. **6.EE.6** If $s = 600$, then staff = $s + 25 = 600 + 25 = 625$.
- Choice C is correct. **6.EE.3** Substitute $y = -4$: $-3(-4) = 12$ (negative times negative equals positive).
- Choice D is correct. **6.EE.3** Combine like terms: $(7p - 3p) + (2q + 5q) = 4p + 7q$.
- Choice A is correct. **6.EE.5** Substitute $x = 5$ into the equation. Check: $2(5) = 10$ is true.
- Choice C is correct. **6.EE.8** The grade requires $g \geq 80$. Since $79.9 < 80$, it does not meet the requirement for a B.
- The correct answer is 360. **6.G.4** Base area = $10^2 = 100 \text{ cm}^2$. Lateral area = $4 \times \frac{1}{2}(10)(13) = 260 \text{ cm}^2$. Total SA = $100 + 260 = 360 \text{ cm}^2$.
- Choice D is correct. **6.EE.8** $x > -4$ does not include -4 (open circle) and includes all numbers greater than -4 (arrow points right).
- Choice B is correct. **6.EE.9** The dependent variable depends on another variable. Pages read depends on time spent reading.
- Choice D is correct. **6.G.2** $V = 10 \times 7 \times 2 = 70 \times 2 = 140 \text{ in}^3$.
- Choice C is correct. **6.G.3** Side length = $8 - 2 = 6$ units. Area = $6 \times 6 = 36$ square units.
- Choice A is correct. **6.G.1** Rectangle: base $9 - 1 = 8$, height $5 - 1 = 4$, area = 32 square units. Triangle: base $9 - 1 = 8$, height $8 - 5 = 3$, area = $\frac{1}{2} \times 8 \times 3 = 12$ square units. Total = $32 + 12 = 44$ square units.
- Choice B is correct. **6.SP.2** Mean = $\frac{20 + 30 + 40 + 50}{4} = \frac{140}{4} = 35$.
- Choice D is correct. **6.SP.3** The data is 5, 5, 5, 5, 7, 7, 11. Maximum = 11, minimum = 5. Range = $11 - 5 = 6$.
- The correct answer is Coprime numbers have GCF of 1; if one number is a factor of the other, the GCF is the smaller.. **6.NS.4** Statement A: Coprime (or relatively prime) numbers share only 1 as a common factor (TRUE). Statement B: LCM of 8 and 12 is 24, not 96 (FALSE). Statement C: If 3 divides 12, then $\text{GCF}(3, 12) = 3$ (TRUE). Statement D: GCF is never larger than LCM (FALSE). Statement E: $100 = 4 \times 25 = 2^2 \times 5^2$, not 2×5^2 (FALSE).
- Choice C is correct. **6.SP.4** The value 5 appears 4 times, which is more than any other value, making it the mode.
- Choice A is correct. **6.RP.1** The lower whisker extends from the minimum to Q_1 , representing the bottom 25% of the data.
- Choice C is correct. **6.SP.5** The spacing increases toward the right (gaps: 3, 4, 3, 3, 4, 6), with a longer tail on the right side.
- Choice B is correct. **6.NS.3** Red pens = 12. Total pens = 40. Probability = $\frac{12}{40} = \frac{3}{10}$.
- Choice A is correct. **6.NS.1** $8\frac{1}{3}\% = \frac{1}{12}$. So $\frac{1}{12} \times 600 = 50$ patients.



Hi, Math Pilot!

◇ 6 flights done in your math airplane. You have flown through smooth skies and bumpy clouds. You are a real pilot now. ◇

★ **Pilots know:** a good check before takeoff makes a smooth flight. Before each problem, do your check: read, plan, solve, verify. ★

Pilot Skills

- **Pre-Flight:** You read the question carefully.
- **Steering:** You pick the right strategy.
- **Smooth Flight:** You stay calm in long tests.
- **Landing:** You always check your final answer.

Pilot tip: on test day, take off one problem at a time. Trust your training. You earned your wings!

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

Jay Daie

Your Math Pilot

PRACTICE TODAY. SUCCEED TOMORROW!

This Grade 6 Math Practice Tests book is designed to help students strengthen their math skills, master important concepts, and build the confidence they need to excel on comprehensive assessments.

With 6 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, develop problem-solving abilities, and reach their full potential.

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

6
PRINTED
TESTS

+
2
ONLINE
TESTS

PERFECT FOR:

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

★ BUILD SKILLS.
GAIN CONFIDENCE.
SUCCEED!

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.



Deeper Understanding

Reinforce key concepts aligned with standards through meaningful practice.



Test Confidence

Become familiar with test formats and improve accuracy and speed.



Achieve Success

Build confidence and perform your best on test day.

TOPICS COVERED

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



6 FULL-LENGTH
PRINTED TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS