

# 4 California CAASPP

GRADE  
**6**  
MATH

## PRACTICE TESTS

Standards Aligned Problem Solving  
For Comprehensive Assessment Programs

**4**

**PRINTED  
TESTS**



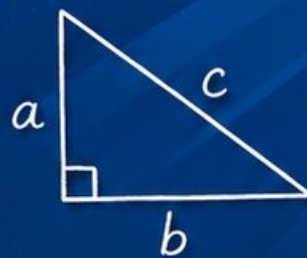
**2**

**ONLINE  
TESTS**



- ✓ Build Confidence
- ✓ Master Key Math Skills
- ✓ Answer Explanations for Every Question
- ✓ Test-Taking Strategies That Work

$$2x + 5 = 21$$
$$x = 8$$



$$\frac{3}{4} + \frac{1}{2} = \frac{5}{4}$$



**USE THESE TWO  
ADDITIONAL ONLINE  
PRACTICE TESTS**

**FOR EXTRA REVIEW AFTER  
THE PRINTED TESTS  
IN THIS BOOK.**

# 4 California CAASPP Grade 6 Math Practice Tests

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



Four 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!

Four focused rounds using coast-to-mountain problem solving

This book gives you four 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 four-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?

Four CAASPP tests, 160 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 3–4	Skill-building and final stamina rounds with expressions, equations, geometry, data, and problem models.
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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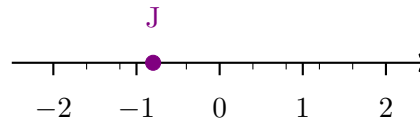
- 1) A parking lot is shaped like a parallelogram with a base of 40 m and a height of 15 m. What is the area of the parking lot?
- A. 110 m<sup>2</sup>                       C. 600 m<sup>2</sup>  
 B. 300 m<sup>2</sup>                       D. 1200 m<sup>2</sup>

- 2) Convert  $\frac{3}{8}$  to a percent.

- 3) A video game shows a player's score history. The player started at 0, gained 50 points, lost 35 points, and then gained 20 points. What is the final score?
- A. 85 points                       C. 70 points  
 B. 35 points                       D. 50 points
- 4) Which student correctly evaluated  $|-7|$ ?
- A. Jordan:  $|-7| = -7$  because it is negative                       C. Alex:  $|-7| = 0$  because opposites cancel  
 B. Sam:  $|-7| = 14$  because you add the digits                       D. Maya:  $|-7| = 7$  because absolute value is the distance from zero



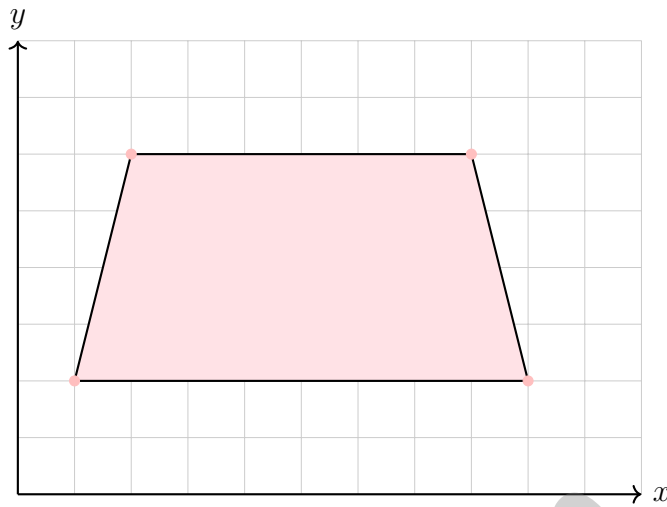
- 5) The number line below shows fractional tick marks between consecutive integers. What is the coordinate of point J?



- A.  $-\frac{4}{5}$                        C.  $-\frac{1}{5}$   
 B.  $-\frac{3}{5}$                        D.  $\frac{2}{5}$
- 6) A point is on the  $y$ -axis between Quadrants I and II. Which of the following could be its coordinates?
- A.  $(0, -3)$                        C.  $(4, 0)$   
 B.  $(0, 4)$                        D.  $(-4, 0)$
- 7) A thermometer shows three temperatures:  $-5^{\circ}F$ ,  $-8^{\circ}F$ , and  $2^{\circ}F$ . Order them from coldest to warmest.
- A.  $-5, -8, 2$                        C.  $-8, -5, 2$   
 B.  $2, -5, -8$                        D.  $-8, 2, -5$
- 8) A triangle has a base of 18 feet. If its area is  $63 \text{ ft}^2$ , what is the height?
- A. 3.5 ft                       C. 10.5 ft  
 B. 14 ft                       D. 7 ft
- 9) A rectangular prism has volume  $\frac{80}{3} \text{ cm}^3$ , length  $\frac{10}{3} \text{ cm}$ , and width 4 cm. What is its height?
- A. 1 cm                       C. 3 cm  
 B. 4 cm                       D. 2 cm



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10)

What is the length of the bottom side of this trapezoid?

A. 6 units

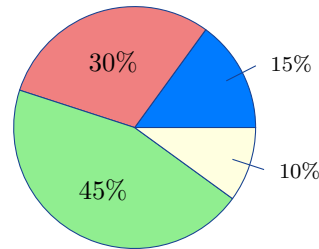
C. 8 units

B. 7 units

D. 9 units



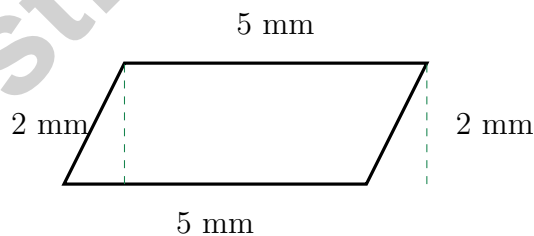




5)

A circle graph with 600 total items has sections of 15%, 30%, 45%, and 10%. Which is the second-largest section by count?

- A. The 30% section with 180 items.       C. The 10% section with 60 items.  
 B. The 15% section with 90 items.       D. The 45% and 30% sections equally.
- 6) Which characteristic is MOST important when deciding to use a dot plot instead of a histogram?
- A. You need to show the median only       C. The dataset is large (over 100 points)  
 B. The dataset is small and you want to see each value       D. The data represents categories, not numbers



7)

Find the area of the parallelogram shown above.

- A.  $4 \text{ mm}^2$        C.  $10 \text{ mm}^2$   
 B.  $7 \text{ mm}^2$        D.  $14 \text{ mm}^2$



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1) Evaluate:  $20 - (4 + 1)^2 + 3$

A. -2

C. 8

B. -1

D. 18

2) Which shows the correct placement of the decimal point?

$32 \times 15 = 480$  with decimals:  $3.2 \times 1.5 = ?$

A. 48.0

C. 480

B. 0.480

D. 4.80

3) Find the LCM of 7 and 11.

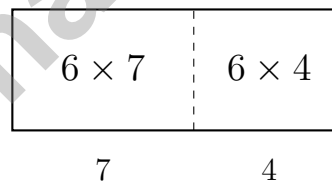
A. 18

C. 70

B. 77

D. 88

4) Which sum matches the factored form  $6(7 + 4)$ ? Look at the area model.



A.  $42 + 24$

C.  $6 + 7 + 6 + 4$

B.  $42 + 4$

D.  $40 + 26$

5) A thermometer reads  $-5^\circ\text{F}$  in the morning. By afternoon, the temperature has risen by  $8^\circ\text{F}$ . What is the new temperature?

A.  $13^\circ\text{F}$

C.  $-13^\circ\text{F}$

B.  $3^\circ\text{F}$

D.  $-3^\circ\text{F}$



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- 6) A recipe uses 2 cups of flour for every 1 cup of sugar. If you want to make a batch using 5 cups of flour, how many cups of sugar do you need? Explain your reasoning using the concept of proportionality.

- 7) The opposite of  $-(-6)$  is:

- A. 6  C. 0  
 B.  $-6$   D. 12

- 8) Which fraction is located between 0 and 1 on a number line?

- A.  $-\frac{2}{5}$   C.  $\frac{5}{4}$   
 B.  $\frac{3}{10}$   D.  $\frac{7}{6}$

- 9) A person's annual income is \$36000. They save 12% of their income per year. How much do they save annually?

- 10) Which coordinate sign combination identifies Quadrant IV?

- A.  $(+, +)$   C.  $(-, -)$   
 B.  $(-, +)$   D.  $(+, -)$



**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 four printed CAASPP tests with flexible, prepared, and ready for a new route habits.

### Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** **(6.G.1)** Area of the parallelogram =  $40 \times 15 = 600 \text{ m}^2$ .
- 2) **The correct answer is 37.5%.** **(6.RP.3)**  $\frac{3}{8} = 0.375$ , and  $0.375 \times 100 = 37.5\%$ .
- 3) **Choice B is correct.** **(6.NS.5)** Starting at 0:  $+50 - 35 + 20 = 35$  points.
- 4) **Choice D is correct.** **(6.SP.4)** Error analysis: Jordan confused absolute value with the original number. Absolute value  $|-7| = 7$  represents distance, which is always non-negative.
- 5) **Choice A is correct.** **(6.SP.4)** Point J is located at  $-0.8$ , which equals  $-\frac{8}{10} = -\frac{4}{5}$ .
- 6) **Choice B is correct.** **(6.NS.8)** A point on the  $y$ -axis between Quadrants I (upper right) and II (upper left) must have  $x = 0$  and positive  $y$ . The point  $(0, 4)$  satisfies these conditions.
- 7) **Choice C is correct.** **(6.NS.7)** From coldest to warmest:  $-8 < -5 < 2$ .
- 8) **Choice D is correct.** **(6.G.1)**  $63 = \frac{1}{2} \times 18 \times h \Rightarrow h = 7 \text{ ft.}$
- 9) **Choice D is correct.** **(6.G.2)**  $\frac{80}{3} = \frac{10}{3} \times 4 \times H = \frac{40}{3} \times H$ , so  $H = 2 \text{ cm.}$
- 10) **Choice C is correct.** **(6.G.3)** The bottom goes from  $(1, 2)$  to  $(9, 2)$ . Length =  $9 - 1 = 8$  units.
- 11) **Choice A is correct.** **(6.G.1)** Base:  $13 - 1 = 12$  units. Height:  $7 - 1 = 6$  units. Area =  $\frac{1}{2} \times 12 \times 6 = 36$  square units.
- 12) **The correct answer is 25%.** **(6.RP.3)** Increase is  $93.75 - 75 = 18.75$ . Percent increase is  $\frac{18.75}{75} = 0.25 = 25\%$ .
- 13) **Choice A is correct.** **(6.NS.2)**  $9,360 \div 48 = 195$ . Check:  $48 \times 195 = 9,360$ .
- 14) **Choice A is correct.** **(6.NS.3)** Starting score:  $-5$ . Dropping 2 more means  $-5 + (-2) = -7$ .
- 15) **Choice B is correct.** **(6.EE.6)** In  $5x + 10$ , the variable  $x$  is first multiplied by 5, and then 10 is added to the result.
- 16) **Choice D is correct.** **(6.G.4)** A straight line of 6 unit squares cannot fold into a cube without overlap or gaps. Valid cube nets require a more compact 2D arrangement (like a cross or T-shape) such that the net folds into 3D with no overlaps.
- 17) **Choice D is correct.** **(6.SP.4)** With 11 data points (odd), the median is at position  $(11 + 1)/2 = 6$ . So the median value 55 is the 6th value in the ordered list.
- 18) **Choice A is correct.** **(6.SP.4)** 30% of \$80 is  $0.30 \times 80 = \$24$ .
- 19) **Choice A is correct.** **(6.EE.9)** Total:  $\$30 + \$40 + \$50 = \$120$ . School supplies:  $\frac{\$30}{\$120} = \frac{1}{4} = 25\%$ .
- 20) **Choice B is correct.** **(6.RP.3)** To find the actual length from a drawing length, multiply by the scale factor:  $3 \text{ inches} \times 4 \text{ feet per inch} = 12 \text{ feet.}$  The student divided ( $3 \div 4 = \frac{3}{4}$ ) instead of multiplying.
- 21) **Choice C is correct.** **(6.NS.1)**  $\frac{5}{6} \div \frac{1}{6} = \frac{5}{6} \times 6 = 5$ .
- 22) **The correct answer is The unit rate is 25 items per hour, and the y-value when x = 1 is 25.** **(6.RP.3)** A is correct because  $50 \div 2 = 25$  items per hour. D is correct because when  $x = 1$ ,  $y = 25$ . Choice B is false for a proportional relationship, Choice C should be  $y = 25x$ , and Choice E is false.
- 23) **Choice A is correct.** **(6.NS.3)** Multiply divisor and dividend by 10:  $240 \div 15 = 16$ .
- 24) **Choice C is correct.** **(6.NS.4)** Factors of 22: 1, 2, 11, 22. Factors of 33: 1, 3, 11, 33. Common factors: 1, 11. GCF is 11.
- 25) **Choice B is correct.** **(6.NS.4)** Each rectangle has height 5. The widths are 3 and 6. Total area =  $5 \times 3 + 5 \times 6 = 5(3 + 6) = 45$ .
- 26) **Choice C is correct.** **(6.NS.8)** Same  $y$ -coordinate:  $|9 - 3| = 6$  units. Distance:  $6 \times 100 = 600$  meters.
- 27) **The correct answer is 200.** **(6.RP.3)** Distance = Rate  $\times$  Time =  $80 \times 2.5 = 200$  miles.
- 28) **Choice D is correct.** **(6.NS.3)** Negative divided by positive is negative:  $\frac{-45}{5} = -9$ .



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& answers

Notes From the Math Gardener

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## Hi, Math Gardener!

◇ Look at how much you grew! 4 tests is like 4 weeks of taking care of your math garden. Every problem was a seed. Every try was water. ◇

★ **Gardeners say:** growth takes time. You can't see roots, but they are there. You can't always feel smarter, but you are. Your math garden is full! ★

### Garden Check-Up

- **Roots:** STRONG! Your basic math is solid.
- **Stems:** STURDY! You can do step-by-step problems.
- **Leaves:** GREEN! You have lots of math tools.
- **Flowers:** BRIGHT! You feel proud of your work.

**Gardener tip:** keep watering your math garden long after the test. Every habit you built will grow with you for years!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Gardener

# PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 4 full-length Math practice tests and 2 online tests to help Grade 6 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:

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



## 2 ONLINE TESTS

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



**VISIT [TESTINAR.COM/MATH6](https://www.testinar.com/math6)**  
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AND LEARNING RESOURCES



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