

7 California CAASPP

7
PRINTED
TESTS

+

2
ONLINE
TESTS

Grade 6 MATH

PRACTICE TESTS

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

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



7 Full-Length
Printed Tests



Standards-Aligned
Math Practice



Detailed Answer Keys
and Explanations



Build Confidence.
Achieve Success.



You've
Got
This!



PREPARE
PRACTICE
SUCCEED



PRACTICE
WITH PURPOSE



STRENGTHEN
MATH SKILLS



REVIEW, IMPROVE,
AND SUCCEED

7 California CAASPP Grade 6 Math Practice Tests

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



Seven 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 seven 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 seven-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. |
| Test 7 | 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

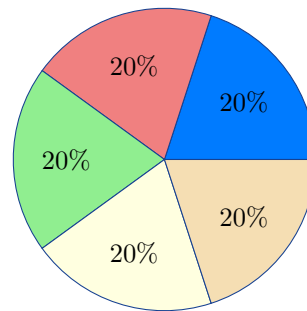
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- 1) A basketball player made 18 out of 20 shots. What percent is this?
- A. 18% C. 90%
- B. 80% D. 95%
- 2) Two box plots represent Class A and Class B. Both have the same median, but Class A has a smaller box. What does this tell us about Class A?
- A. Class A has a higher average score. C. Class A has all higher scores.
- B. Class A has less variability in the middle 50% of data. D. Class A's median is not reliable.
- 3) The point $(4, 2)$ is reflected across the y -axis. What is the new x -coordinate?

- 4) A coin is flipped and a die is rolled. How many possible outcomes are in the sample space?
- A. 8 C. 24
- B. 12 D. 36





5)

A circle graph is divided into 5 equal sections. Each section represents what percent?

- A. 20% C. 10%
 B. 15% D. 25%

6) A dot plot shows the number of pets owned by 10 families: 0, 1, 1, 2, 2, 2, 3, 3, 4, 5. Which measure of center is MOST resistant to the outlier value of 5 pets?

- A. Mean C. Mode
 B. Median D. Range

7)



The dots show purple and yellow counters. Express the ratio of purple to yellow in the form $a : b$.

- A. 4 : 5 C. 5 : 9
 B. 9 : 5 D. 5 : 4

8) A car depreciates in value by 15% each year. If it is worth \$20,000 now, what will it be worth after one year?

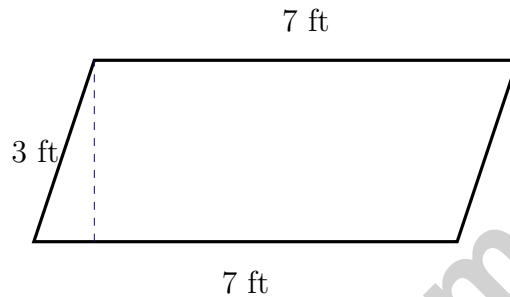
- A. \$15,000 C. \$17,000
 B. \$16,000 D. \$18,000



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9) A video streaming service charges \$8 per month. If m is months and T is total cost, the equation is $T = 8m$. What does the number 8 in the equation represent?

- A. The total cost
 B. The monthly charge
 C. The number of months
 D. The type of service



10)

What is the area of the parallelogram shown?

- A. 10 ft^2
 B. 17 ft^2
 C. 21 ft^2
 D. 28 ft^2

11) A triangular prism has a triangular base with sides 5 cm, 12 cm, and 13 cm. The area of the triangular base is 30 cm^2 . The height of the prism is 10 cm. What is the total surface area?

- A. 60 cm^2
 B. 300 cm^2
 C. 360 cm^2
 D. 420 cm^2

12) A climate scientist collects temperature data from 100 cities. What is the population?

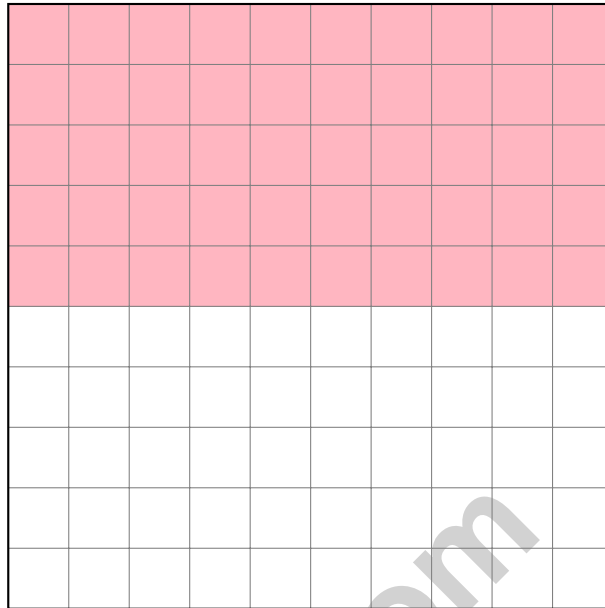
- A. The 100 cities sampled
 B. All cities on Earth
 C. The temperature readings
 D. The countries represented



- 1) A thermometer shows a temperature of -17 degrees. What does $|-17|$ tell us?
- A. The temperature is 17 degrees below zero
- B. The magnitude of the temperature is 17 degrees
- C. The temperature is 17 degrees above zero
- D. The temperature is positive
- 2) A recipe calls for flour and sugar in a $5 : 2$ ratio. If the recipe uses 10 cups of flour, how many cups of sugar are needed?

- 3) Which list of integers is in order from least to greatest?
- A. $-4, -1, 0, 2$
- B. $2, 0, -1, -4$
- C. $-1, -4, 0, 2$
- D. $0, -1, -4, 2$





4)

What fraction of the grid is NOT shaded pink, in simplest form?

A. $\frac{1}{2}$
 B. $\frac{3}{5}$

C. $\frac{1}{4}$
 D. $\frac{2}{5}$

5) Marcus ran 1.5 miles. How many feet did Marcus run? (Use 1 mile = 5280 feet.)

A. 3,540 feet
 B. 7,920 feet

C. 5,280 feet
 D. 10,560 feet

6) Which of the following equations represents a proportional relationship?

A. $y = 3x + 2$
 B. $y = 3x$

C. $y = x^2$
 D. $y = 3 + x$

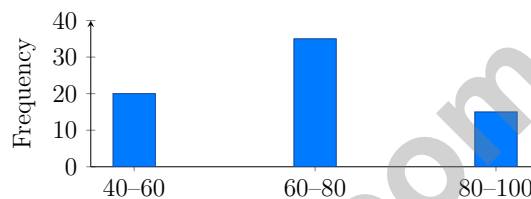


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- 1) To qualify for a school club, you must have no less than a 3.0 grade point average. Which inequality describes the minimum GPA g ?

- A. $g < 3.0$ C. $g \leq 3.0$
 B. $g > 3.0$ D. $g \geq 3.0$

- 2) The histogram shows test scores grouped in intervals. Based on the histogram, how many students scored between 60 and 80?



- A. 15 students C. 35 students
 B. 20 students D. 55 students
- 3) A car travels 225 miles on 9 gallons of gas. What is the fuel efficiency in miles per gallon?
- A. 20 miles per gallon C. 25 miles per gallon
 B. 22 miles per gallon D. 45 miles per gallon
- 4) A student's grade increased from 82 to 90. What is the percent increase, rounded to the nearest whole number?
- A. 10% C. 8%
 B. 9.8% D. 12%



5) A cyclist travels at a rate of 15 miles per hour. How long will it take to travel 60 miles?

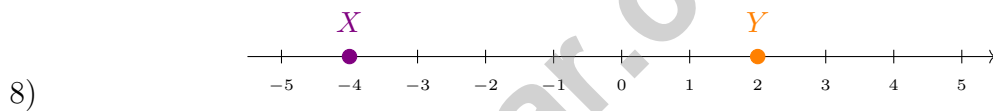
- A. 2 hours C. 4 hours
 B. 3 hours D. 5 hours

6) Which expression represents the quotient when 6,048 is divided by 36?

- A. 168 C. 182
 B. 178 D. 190

7) Which statement correctly compares two absolute values?

- A. $|-4| > |5|$ C. $|-3| = |3|$
 B. $|-6| < |2|$ D. $|-10| < |-8|$



The distance between X and Y is:

- A. 2 units C. 6 units
 B. 4 units D. 8 units

9) A recipe calls for 3 cups of flour and 9 cups of sugar. What is the simplified ratio of flour to sugar?

- A. 1 : 3 C. 1 : 9
 B. 3 : 9 D. 9 : 3



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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 seven 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.RP.3)** $\frac{18}{20} = \frac{90}{100} = 90\%$ (multiply numerator and denominator by 5).
- 2) **Choice B is correct.** **(6.RP.1)** A smaller box means a smaller IQR, indicating less spread in the middle 50% of the data.
- 3) **The correct answer is -4 .** **(6.NS.8)** Reflection across the y -axis changes the sign of the x -coordinate.
- 4) **Choice A is correct.** **(6.NS.3)** Coin flip: 2 outcomes (H or T). Die roll: 6 outcomes. Total = $2 \times 6 = 12$ outcomes.
- 5) **Choice A is correct.** **(6.NS.1)** A circle has 100%. Divide by 5: $100 \div 5 = 20\%$ per section.
- 6) **Choice B is correct.** **(6.RP.3)** The median (middle value when ordered) is 2.5, largely unaffected by the outlier 5. The mean becomes 2.3 (affected), mode is 2, and range is 5 (which reflects the outlier).
- 7) **Choice D is correct.** **(6.RP.1)** Count the purple counters first because the question says purple to yellow. There are 5 purple and 4 yellow, so the ratio is 5 : 4.
- 8) **Choice C is correct.** **(6.RP.3)** Depreciation is 15% of \$20,000 = $0.15 \times 20,000 = \$3,000$. Value after one year is $\$20,000 - \$3,000 = \$17,000$.
- 9) **Choice B is correct.** **(6.EE.9)** In the equation $T = 8m$, the number 8 (multiplied by m) represents \$8 per month, the monthly charge.
- 10) **Choice C is correct.** **(6.G.1)** Area = $7 \times 3 = 21$ ft².
- 11) **Choice C is correct.** **(6.G.4)** Two triangular bases: $2 \times 30 = 60$ cm². Three rectangular faces: $(5 \times 10) + (12 \times 10) + (13 \times 10) = 50 + 120 + 130 = 300$ cm². Total = $60 + 300 = 360$ cm².
- 12) **Choice B is correct.** **(6.SP.2)** The population is the entire set of cities from which the scientist wants to draw conclusions. The 100 cities represent a sample from the global population of cities.
- 13) **The correct answer is $-\$3000$.** **(6.NS.3)** Loss of \$500 per month for 6 months: $(-500) \times 6 = -3000$, meaning a loss of \$3000.
- 14) **Choice C is correct.** **(6.SP.2)** Range = Max - Min. So $45 = \text{Max} - 30$, which gives Max = 75.
- 15) **Choice C is correct.** **(6.SP.4)** Count all leaves: $3 + 4 + 3 = 10$ data points.
- 16) **Choice D is correct.** **(6.EE.3)** Distribute: $9(x + 2) = 9 \cdot x + 9 \cdot 2 = 9x + 18$.
- 17) **Choice C is correct.** **(6.EE.5)** Multiply both sides by 6: $x = 5 \times 6 = 30$.
- 18) **Choice A is correct.** **(6.EE.8)** The filled circle at -4 means "including -4 " (\geq). The open circle at -1 means "not including -1 " ($<$). Together: $-4 \leq x < -1$.
- 19) **Choice D is correct.** **(6.EE.8)** "At most 3 weeks" means "less than or equal to 3 weeks," so $w \leq 3$ (includes 3 weeks).
- 20) **Choice A is correct.** **(6.G.2)** $V = \frac{1}{2} \times \frac{3}{4} \times \frac{2}{3} = \frac{6}{24} = \frac{1}{4}$ ft³.
- 21) **The correct answer is B and C are correct. The absolute value of zero is 0, and opposites like 5 and -5 both have absolute value 5.** **(6.SP.4)** A is incorrect because $|0| = 0$, not positive. D is incorrect because the opposite of -5 is 5, which is positive. E is incorrect because absolute value is the distance from zero, not the opposite.
- 22) **Choice D is correct.** **(6.SP.4)** Difference = $6 - 3 = 3$ more students completed 30 jumping jacks than 25 jacks.
- 23) **Choice C is correct.** **(6.RP.1)** Divide total widgets by days: $504 \div 7 = 72$ widgets per day.
- 24) **Choice A is correct.** **(6.NS.2)** Use long division or estimation: $24 \times 50 = 1,200$, leaving 48. Then $48 \div 24 = 2$, so $1,248 \div 24 = 52$.
- 25) **Choice B is correct.** **(6.NS.3)** Moving left 3 units from -3 is subtracting 3: $-3 - 3 = -6$.
- 26) **Choice C is correct.** **(6.EE.6)** Selling means subtract from the total: $f - 25$ fish remain.
- 27) **Choice C is correct.** **(6.G.1)** Triangle X: $A = \frac{1}{2} \times 12 \times 5 = 30$ in². Triangle Y: $A = \frac{1}{2} \times 5 \times 12 = 30$ in². Both equal 30 in².



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& answers

Notes From the Math Gardener

Hi, Math Gardener!

◇ Look at how much you grew! 7 tests is like 7 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.

Jay Daie

Your Math Gardener

MASTER 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 7 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.



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.



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.



7 FULL-LENGTH
PRINTED TESTS



STANDARDS-
ALIGNED PRACTICE



DETAILED ANSWER
KEYS & EXPLANATIONS