

9

California CAASPP

GRADE

6

MATH

PRACTICE TESTS

Standards-Aligned Review
Mixed Practice & Answer Key



9 PRINTED TESTS

Realistic practice to build confidence and mastery



DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



BUILD CONFIDENCE

Strengthen problem solving and test-taking skills



9 PRINTED TESTS
+2 ONLINE TESTS

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

PRACTICE TODAY.
SUCCEED TOMORROW.



PRACTICE



REVIEW



SUCCEED

9 California CAASPP Grade 6 Math Practice Tests

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



Nine 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!

Nine focused rounds using coast-to-mountain problem solving

This book gives you nine 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 nine-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?

Nine CAASPP tests, 360 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 7–9 | 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.



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For more practice
& answers

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Area Model Division: $2,688 \div 32$

| | |
|----|---|
| 80 | 4 |
|----|---|

$$32 \times 80 \qquad 32 \times 4$$

$$= 2,560 \qquad = 128$$

$$\text{Total: } 2,560 + 128 = 2,688$$

6)

Using the area model above, what is the quotient $2,688 \div 32$?

 A. 84

 C. 88

 B. 86

 D. 90

7) Which pair of absolute values are NOT equal?

 A. $|-2|$ and $|2|$
 C. $|-3|$ and $|5|$
 B. $|-4|$ and $|4|$
 D. $|-6|$ and $|6|$

8) A bakery sells 6 muffins for \$9. What is the unit price per muffin in dollars?

9) Which pair of numbers are NOT equivalent on the number line?

 A. $-\frac{1}{2}$ and -0.5
 C. $-\frac{1}{4}$ and -0.4
 B. $\frac{3}{4}$ and 0.75
 D. -2 and $-\frac{6}{3}$


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10) Which comparison is true?

A. $-2.3 > 0.5$

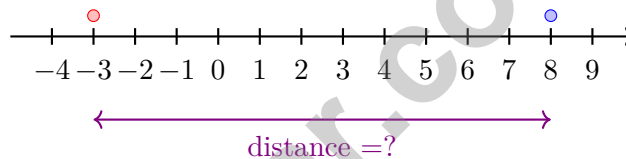
C. $\frac{3}{4} > 2$

B. $\frac{1}{2} < -\frac{1}{2}$

D. $-0.8 < -0.3$

11) A car travels at a constant speed. After 3 hours, the car has traveled 165 miles. At this rate, how many miles will the car travel in 8 hours?

12) On a number line, what is the distance from -3 to 8 ?



A. 5 units

C. -11 units

B. -5 units

D. 11 units

13) Daniel buys n notebooks at \$3 each. Which expression shows the total cost in dollars?

A. $3n$

C. $n + 3$

B. $n - 3$

D. $\frac{n}{3}$



1) Class A scored a mean of 82 on a test; Class B scored a mean of 76 on the same test. Which statement is best supported by the data?

- A. Every student in Class A scored higher than every student in Class B.
 C. Class B had more students than Class A.
- B. Class A's typical score was higher than Class B's.
 D. The two classes had identical performance.

2) Compute: $\frac{-36}{-6}$

- A. 6
 C. -30
- B. -6
 D. 30

3) A student saves \$25 every two weeks. How much will she save in 8 weeks?

- A. \$50
 C. \$100
- B. \$75
 D. \$150

4) Compute: $\frac{7}{8} \div \frac{1}{4}$

- A. $\frac{7}{32}$
 C. $3\frac{1}{2}$
- B. $\frac{7}{16}$
 D. $\frac{11}{8}$

5) The number line below shows tick marks at each integer. Point M is marked on the line. What is the coordinate of point M?



- A. 2.5
 C. 2
- B. 2.25
 D. 3



6) Compare $-\frac{2}{3}$ and $-\frac{1}{3}$. Which symbol makes the statement true?

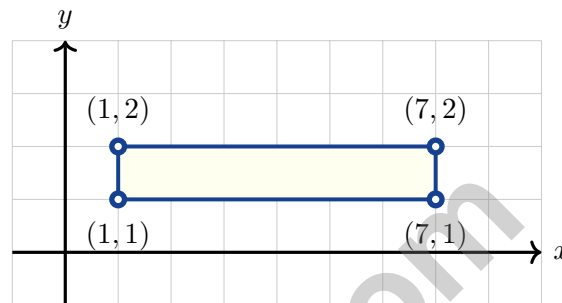
$$-\frac{2}{3} \square -\frac{1}{3}$$

A. <

C. =

B. >

D. Cannot compare



7)

What is the length of the top side of this rectangle from (1, 2) to (7, 2)?

A. 4 units

C. 6 units

B. 5 units

D. 7 units

8) On a number line, start at -9 and move 15 units to the right. Where do you end up?

A. -24

C. 6

B. -6

D. 24

9) A parking garage charges \$3 per hour. If a customer stays for 4 hours, what is the total charge?

A. \$12

C. \$1

B. \$7

D. \$84



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1) A car rental requires drivers to be at least 18 years old. Which inequality represents this requirement?

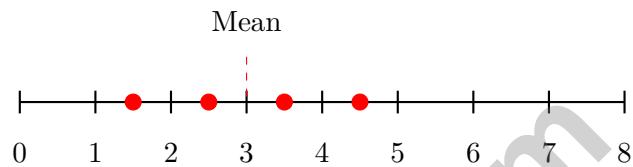
A. $d > 18$

C. $d \leq 18$

B. $d < 18$

D. $d \geq 18$

2) Find the mean of the values shown on the number line:



A. 2.5

C. 3.5

B. 3

D. 4

3) A square pyramid and a cube both have the same base dimensions. The cube has edge length 5 cm. The pyramid has the same square base (5×5 cm) and slant height 4 cm. Which shape has the greater surface area?

 A. The cube

 C. They have equal surface area

 B. The pyramid

 D. Cannot be determined

4) Error Analysis: A student says, “The question ‘What color is your favorite crayon?’ is statistical because many students have different favorite colors.”

What is the error?

 A. Different answers do not automatically make a question statistical.

 C. The question is too easy for a statistical question.

 B. Crayons are not used in statistics.

 D. There is no error; the reasoning is correct.

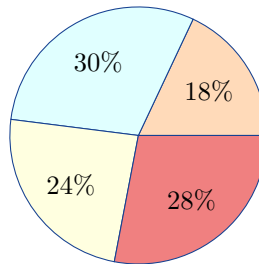

5) For 68, 70, 72, 75, 73, 71, 69, find the interquartile range.

6) The data set is 10, 12, 14, 16, 18. If you add an outlier of 100, how does the mean change?

- A. Mean stays about the same C. Mean decreases significantly
 B. Mean becomes zero D. Mean increases significantly

7) A teacher examines a stem-and-leaf plot and notices that all leaves for a particular stem are identical (e.g., stem 5 has leaves 3, 3, 3, 3). What does this indicate about the data?

- A. The data is not properly organized C. The plot must contain an error
 B. Several data values are the same D. All data must be in the same range (repeated data points)



8)

A survey of 1000 people shows preferences in a circle graph. A student claims the 18% section has a central angle of 75° . Is this correct?

- A. Yes, $18\% \times 360^\circ = 75^\circ$. C. No, the correct angle is 72° .
 B. No, the correct angle is 64.8° . D. No, the correct angle is 81° .



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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.



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California Practice Test Answers and Explanations

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

Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** **(6.SP.3)** $IQR = Q3 - Q1 = 78 - 68 = 10$ degrees. The box in a box plot represents the IQR.
- 2) **Choice A is correct.** **(6.NS.3)** All three are equivalent: $0.5 = 0.50 = 0.500 = \frac{1}{2}$. Trailing zeros do not change the value.
- 3) **Choice A is correct.** **(6.NS.4)** Multiples of 6: 6, 12, 18, 24, 30, ... Multiples of 8: 8, 16, 24, 32, ... The least common multiple is 24.
- 4) **Choice A is correct.** **(6.NS.4)** Using the distributive property: $7(4 + 6) = 7 \cdot 4 + 7 \cdot 6 = 28 + 42 = 70$.
- 5) **Choice C is correct.** **(6.NS.8)** First reflect across the x -axis: $(a, b) \rightarrow (a, -b)$. Then reflect across the y -axis: $(a, -b) \rightarrow (-a, -b)$.
- 6) **Choice A is correct.** **(6.NS.2)** The area model shows $80 + 4 = 84$. Verify: $32 \times 80 = 2,560$ and $32 \times 4 = 128$, so $2,560 + 128 = 2,688$.
- 7) **Choice C is correct.** **(6.SP.4)** Check each: A: $2 = 2$ (equal). B: $4 = 4$ (equal). C: $3 \neq 5$ (NOT equal). D: $6 = 6$ (equal).
- 8) **The correct answer is \$1.50.** **(6.RP.2)** $\$9 \div 6 = \1.50 per muffin. Accept 1.5 as equivalent.
- 9) **Choice C is correct.** **(6.SP.4)** $-\frac{1}{4} = -0.25$, not -0.4 . The other pairs are equivalent.
- 10) **Choice D is correct.** **(6.NS.7)** -0.8 is further left on the number line than -0.3 , so it is less. All other comparisons are false.
- 11) **The correct answer is 440.** **(6.RP.3)** The unit rate is $\frac{165 \text{ miles}}{3 \text{ hours}} = 55$ miles per hour. For 8 hours: $8 \times 55 = 440$ miles.
- 12) **Choice D is correct.** **(6.NS.3)** The distance from -3 to 8 is $8 - (-3) = 8 + 3 = 11$ units.
- 13) **Choice A is correct.** **(6.EE.6)** Total cost = price per notebook \times number of notebooks = $3n$.
- 14) **Choice B is correct.** **(6.G.1)** Area of a triangle = $\frac{1}{2} \times b \times h = \frac{1}{2} \times 10 \times 6 = 30 \text{ cm}^2$.
- 15) **Choice D is correct.** **(6.G.1)** Area = $7 \times 2.5 = 17.5 \text{ cm}^2$. The slant side is not used in the formula.
- 16) **Choice D is correct.** **(6.G.2)** $V = 4 \times 4 \times 5 = 16 \times 5 = 80 \text{ cm}^3$.
- 17) **Choice B is correct.** **(6.G.3)** The parallel sides are at $y = 2$ and $y = 6$. Height = $6 - 2 = 4$ units.
- 18) **Choice C is correct.** **(6.SP.2)** The different responses (25, 45, 30, 50, 35 minutes) demonstrate that this question has variability and requires data collection, which are hallmarks of a statistical question.
- 19) **The correct answer is 800.** **(6.SP.4)** Total spent: $50\% + 20\% + 10\% = 80\%$ of $\$4000 = \3200 . Remaining: $\$4000 - \$3200 = \$800$.
- 20) **The correct answer is The graph is a straight line through the origin, and the ratio of y to x is always constant.** **(6.EE.9)** Statements A and B correctly describe proportional relationships. C is wrong because b must equal 0 for proportionality. D is wrong because proportional equations have the form $y = kx$, not $y = k/x$. E is wrong because a proportional relationship must start at the origin.
- 21) **Choice D is correct.** **(6.SP.4)** The mode is the value with the highest frequency. The frequency 7 for 1.5 inches is the largest, so 1.5 inches is the mode.
- 22) **Choice C is correct.** **(6.RP.1)** Q_3 is the right edge of the box in the box plot.
- 23) **Choice B is correct.** **(6.SP.4)** Numbers in the 10s: 12, 18, 15, 12, 20, 15, 14, 19. Those with stem 1: 12, 18, 15, 12, 15, 14 (6 values).
- 24) **Choice A is correct.** **(6.EE.9)** Total expenses: $\$1200 + \$500 = \$1700$. Remaining: $\$2000 - \$1700 = \$300$.
- 25) **Choice C is correct.** **(6.NS.1)** Friendly reminder: when you divide by a fraction, you can multiply by its reciprocal ("flip" the divisor and multiply). $\frac{3}{4} \div \frac{1}{2} = \frac{3}{4} \times \frac{2}{1} = \frac{6}{4}$, which simplifies to $\frac{3}{2}$, or $1\frac{1}{2}$.
- 26) **Choice D is correct.** **(6.EE.3)** Combine like terms: $(9p + p) + (-4q + 2q) = 10p - 2q$.



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Hi, Math Athlete!

◇ 9 practice tests done! That's serious training. Your math muscles are strong. You are in great shape for the big test. ◇

★ **Trainers know:** muscle memory is real. The more you practice, the more your brain knows what to do without thinking. You built that muscle memory! ★

Athlete Performance

- **Endurance:** TOP! You can finish a long test.
- **Strength:** STRONG! You handle hard problems.
- **Speed:** JUST RIGHT! You don't rush.
- **Recovery:** GOOD! You bounce back from tough questions.

Trainer tip: on test day, drink water, breathe deeply, and warm up with the easier questions first. Your training will carry you the rest of the way!

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

Jay Daie

Your Math Trainer

PRACTICE MORE. ACHIEVE MORE.

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 any test.

With 9 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 math concepts 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
- ✓ 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.



9 PRINTED
PRACTICE TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS