

7 California CAASPP

Grade 7 Math Practice Tests



7 PRINTED TESTS + 2 ONLINE TESTS



**Standards Aligned Problem Solving
For Comprehensive Assessment Programs**



8 California CAASPP Grade 7 Math Practice Tests

Strong review across California Grade 7 rational numbers, algebraic thinking, geometric figures, data, and chance



Eight complete 40-question Grade 7 CAASPP practice rounds with proportional relationships, percents, rational numbers, expressions, equations, geometry, statistics, probability, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, California Grade 7 Problem Solver!

Eight focused rounds for sharper CAASPP math thinking

This book gives you seven full Grade 7 CAASPP math practice tests. Each round is built to help you notice structure, compare quantities, use proportional reasoning, handle rational numbers, and explain your thinking with care.

Your California Practice Promise

I will read every question carefully, choose a strategy that fits, write enough work to prove my answer, and use corrections as training for the next test.

Read

Model

Verify

How to Use This Book

An eight-session plan for confident Grade 7 review

1. **Warm up with the review pages.** Notice the big ideas before starting the tests.
2. **Complete one test at a time.** Treat each 40-question round like a real practice session.
3. **Show your reasoning.** Jot a proportion, equation, diagram, number line, or quick estimate when it helps.
4. **Correct actively.** Rework missed items before reading the explanation.
5. **Choose the next target.** After each test, name one skill and one habit to improve.

California review rhythm: Work a test, score it, study your misses, then come back ready for the next round with one clear goal.



What Is Inside?

Eight CAASPP tests, 280 questions, and a complete review path

Part	What You Will Practice
Tests 1–3	Proportional relationships, unit rates, percents, rational-number operations, and careful reading.
Tests 4–6	Expressions, equations, inequalities, scale drawings, geometry, and multi-step problem solving.
Tests 7–8	Statistics, probability, mixed review, stamina, and choosing efficient strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Grade 7 success means recognizing which idea is being tested even when the next question changes format.



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- 1) A spinner labeled 1–8 is spun. A student claims $P(\text{rolling an odd number}) = \frac{4}{8}$, then says this equals $\frac{1}{2}$. Is the second step correct?

- ☐ A. No; $\frac{4}{8}$ cannot be simplified.
 ☐ D. No; the count is wrong; it should be $\frac{5}{8}$.
- ☐ B. Yes; $\frac{4}{8} = \frac{1}{2}$.
- ☐ C. No; $\frac{4}{8} = \frac{2}{4}$.

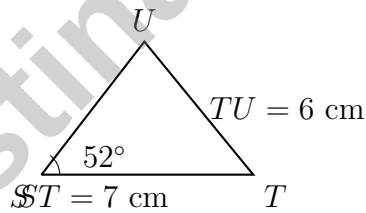
- 2) A stock broker earns a 0.5% commission on all stock trades. A client makes a trade worth \$8,000. What is the broker's commission?

- ☐ A. \$4
 ☐ C. \$400
- ☐ B. \$4,000
 ☐ D. \$40

- 3) A savings account starts with \$2,000 and earns 8% interest compounded annually. How much interest is earned after 2 years?

- ☐ A. \$160
 ☐ C. \$331.20
- ☐ B. \$320
 ☐ D. \$332.80

4)



Triangle STU has side $ST = 7$ cm, side $TU = 6$ cm, and the angle at T is 52° . This triangle is uniquely determined by the:

- ☐ A. SSS condition
 ☐ C. ASA condition
- ☐ B. SAS condition
 ☐ D. SSA condition

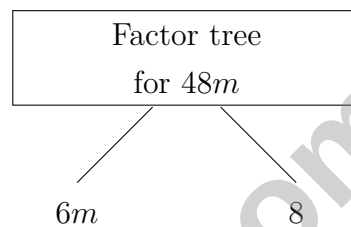


5) On a number line, which point represents a number whose absolute value is 10?



- ☐ A. Only 10
☐ B. Only -10

- ☐ C. Both 10 and -10
☐ D. Only 0



6)

If a factor tree shows that $48m = 6m \times 8$, then what is the GCF of $48m$ and 24?

- ☐ A. 6
☐ B. 8

- ☐ C. 24
☐ D. 12

7) A cube has edge length 6 cm. Find its surface area.

- ☐ A. 36 cm^2
☐ B. 72 cm^2

- ☐ C. 144 cm^2
☐ D. 216 cm^2

8) Simplify: $7a + 4b - 2a + 3b - b$

- ☐ A. $5a + 6b$
☐ B. $5a + 5b$

- ☐ C. $9a + 6b$
☐ D. $5a + 7b$



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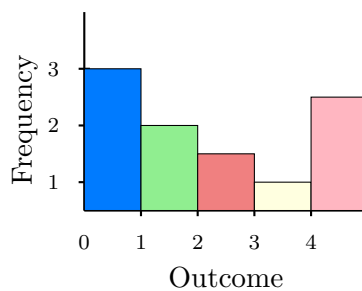
9) Solve: $-2(x + 1) < 10$

☐ A. $x > -6$

☐ B. $x < -6$

☐ C. $x < 6$

☐ D. $x > 6$



10)

Based on the bar graph showing 100 simulation trials, what is the estimated probability of Outcome 1?

☐ A. 0.10

☐ B. 0.15

☐ C. 0.25

☐ D. 0.30



- 1) Which of the following does NOT represent a proportional relationship?
- ☐ A. $y = 6x$ ☐ C. $y = x + 2$
☐ B. $y = 0.5x$ ☐ D. $y = \frac{3}{4}x$
- 2) A dot plot shows the distance (in kilometers) traveled by two cycling groups in one afternoon. Group 1: 10, 12, 12, 13, 13, 14 km; Group 2: 5, 8, 15, 18, 22, 25 km. Which group had a more predictable cycling distance?
- ☐ A. Group 1 (range 4 km, clustered 12–13) ☐ C. Both groups have the same predictability
☐ B. Group 2 (wider range, more adventure) ☐ D. Group 2 (higher average distance)
- 3) A garden is shaped like an L. It consists of a 6 m by 4 m rectangle and a 3 m by 3 m square connected at a corner. Find the total area of the garden.
- ☐ A. 12 m^2 ☐ C. 33 m^2
☐ B. 21 m^2 ☐ D. 45 m^2
- 4) A cube has side length 9 meters. What is its volume?
- ☐ A. 27 m^3 ☐ C. 243 m^3
☐ B. 81 m^3 ☐ D. 729 m^3
- 5) A triangle has sides of 3.2 cm and 5.1 cm. Which range gives all possible values for the third side?
- ☐ A. $1.9 < c < 8.3 \text{ cm}$ ☐ C. $3.2 < c < 5.1 \text{ cm}$
☐ B. $1.9 \leq c \leq 8.3 \text{ cm}$ ☐ D. $0 < c < 8.3 \text{ cm}$



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6) Circle A has a radius of 3 cm. Circle B has a radius of 3 cm. If you double the radius of Circle A , how does its new diameter compare to Circle B 's diameter?

- ☐ A. New diameter of A is half of B 's diameter ☐ C. New diameter of A is twice B 's diameter
☐ B. New diameter of A is equal to B 's diameter ☐ D. Cannot be determined

7) What is $-\frac{3}{4} \times (-\frac{8}{9})$?

8) A savings account offers 2% annual interest on a balance of \$500. How much interest will be earned in one year?

- ☐ A. \$5 ☐ C. \$15
☐ B. \$25 ☐ D. \$10

9) Factor completely: $15x + 35$

- ☐ A. $5(3x + 7)$ ☐ C. $15(x + 2.33)$
☐ B. $7(2x + 5)$ ☐ D. $3(5x + 11.67)$



1) Identify the expression that is already simplified.

☐ A. $2x + 3x + 4y$

☐ C. $7m + 3n - 2p$

☐ B. $5a + 3a + 2b$

☐ D. $4c + 2c + 5c$

2) A runner tracks distance and heartbeats. For every $\frac{1}{5}$ mile run, the runner's heart beats 25 times. What is the constant of proportionality relating heartbeats to miles?

☐ A. $k = \frac{1}{5}$ beats per mile

☐ C. $k = 0.2$ beats per mile

☐ B. $k = 5$ beats per mile

☐ D. $k = 125$ beats per mile

3) Simplify $2(x + 7) - (x - 3) + 5$, then evaluate when $x = 2$.

4)

Original Price	Sale Price
\$200	\$150

What percent was the discount?

☐ A. 75%

☐ C. 50%

☐ B. 33%

☐ D. 25%

5) A video game costs \$60. Due to high demand, the price increases to \$72. Later, the store runs a 10% off sale on the new price. What is the final price?

☐ A. \$60

☐ C. \$64.80

☐ B. \$62.40

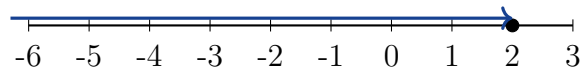
☐ D. \$70



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6) Simplify $(y^3)^2 \cdot y^1$. What is the exponent on y ?

7) What inequality is represented?



☐ A. $x > 2$

☐ C. $x \geq 2$

☐ B. $x < 2$

☐ D. $x \leq 2$

8) Which inequality represents “a number decreased by 7 is less than or equal to 12”?

☐ A. $n - 7 \leq 12$

☐ C. $n + 7 \leq 12$

☐ B. $7 - n \leq 12$

☐ D. $n \leq 19$

9) A school district collects data on student absences. Researchers survey 100 students randomly selected from each grade level. Why is this stratified approach appropriate?

☐ A. It reduces the total sample size needed

☐ C. It eliminates the need for random selection

☐ B. It ensures each grade is represented proportionally in the sample

☐ D. It automatically produces a larger sample

10)

Spin Result	Heads	Tails	Total
Frequency	156	144	300

A coin is flipped 300 times. Based on the simulation, what is the estimated probability of getting tails?

☐ A. 0.44

☐ C. 0.50

☐ B. 0.48

☐ D. 0.52



California Assessment of Student Performance and Progress Grade 7 Practice Test Answer Keys

How to use this section with a Grade 7 student:

1. check the answer first and circle any item that needs another look
2. retry the problem with fresh work before reading the explanation
3. write one short lesson learned from each missed or guessed item

A strong review routine turns every correction into a sharper plan for the next California Assessment of Student Performance and Progress practice test.



Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** (7.SP.5-7.SP.8) Odd numbers: 1, 3, 5, 7 (4 out of 8). $\frac{4}{8} = \frac{1}{2}$ is correct.
- 2) **Choice D is correct.** (7.RP.3) Commission = commission rate $\times$ trade value = $0.005 \times 8000 = \$40$.
- 3) **Choice D is correct.** (7.RP.3) Balance after 2 years: $2000 \times 1.08 \times 1.08 = 2332.80$. Interest earned: $2332.80 - 2000 = 332.80$.
- 4) **Choice B is correct.** (7.G.1-7.G.5) Two sides ($ST = 7$ cm and $TU = 6$ cm) and the included angle (at $T = 52^\circ$) are known. This is the SAS (Side-Angle-Side) condition.
- 5) **Choice C is correct.** (7.NS.1-7.NS.3) Two points on a number line have absolute value 10: the point 10 (ten units right of zero) and -10 (ten units left of zero).
- 6) **Choice C is correct.** (7.EE.1-7.EE.2) GCF of $48m$ and 24 : GCF of 48 and 24 is 24 . No variable is common to both. GCF is 24 .
- 7) **Choice D is correct.** (7.G.4-7.G.6) A cube has 6 faces, each a square with side length 6 cm. $SA = 6s^2 = 6(6)^2 = 6(36) = 216 \text{ cm}^2$.
- 8) **Choice A is correct.** (7.EE.1) Combine: $(7 - 2)a + (4 + 3 - 1)b = 5a + 6b$.
- 9) **Choice A is correct.** (7.EE.4b) Distribute: $-2x - 2 < 10$. Add 2: $-2x < 12$. Divide by -2 and flip: $x > -6$.
- 10) **Choice C is correct.** (7.SP.5-7.SP.8) From the bar graph, Outcome 1 appears 25 times out of 100 trials. Relative frequency = $\frac{25}{100} = 0.25$.
- 11) **The correct answer is 0.85.** (7.RP.1-7.RP.3) The marked point is $(1, 0.85)$, which is the unit-rate point. This means the constant of proportionality is $k = 0.85$, so the cost is $\$0.85$ per item.
- 12) **The correct answer is 15%.** (7.RP.3) The discount amount is $60 - 51 = 9$ dollars. Percent discount: $\frac{9}{60} = 0.15 = 15\%$.
- 13) **Choice D is correct.** (7.NS.1-7.NS.3) $120 - 45 + 30 = 75 + 30 = 105$.
- 14) **Choice B is correct.** (7.NS.1-7.NS.3) Divide the magnitudes: $13 \div 4 = 3.25$. Apply sign rule: $(+) \div (-) = (-)$. Thus $13 \div (-4) = -3.25$.
- 15) **The correct answer is \$51.** (7.RP.3) Discount amount = $0.32 \times 75 = \$24$. Sale price = $75 - 24 = \$51$.
- 16) **Choice A is correct.** (7.NS.1-7.NS.3) $-1.75 \times 4 = -7.00$ dollars.
- 17) **Choice A is correct.** (7.EE.1-7.EE.2) Combine: $(6v + 3v) + (2 - 8) = 9v - 6$.
- 18) **Choice B is correct.** (7.EE.1-7.EE.2) Any non-zero number raised to the power of zero equals 1: $5^0 = 1$.
- 19) **The correct answer is A,B.** (7.RP.1-7.RP.3) A and B. Each point satisfies $y/x = 3$, so the table is proportional with constant ratio 3 (A) and is modeled by $y = 3x$ (B). C is false: the constant of proportionality is 3, not $\frac{1}{3}$. D is false: $y = 3x - 1$ would give $y = 2$ at $x = 1$, not 3.
- 20) **The correct answer is \$1320.** (7.RP.3) Housing: $0.40 \times 2200 = \$880$. Food: $0.20 \times 2200 = \$440$. Combined: $\$880 + \$440 = \$1320$.
- 21) **Choice C is correct.** (7.EE.4a) The books cost $3 \times 8 = \$24$ and the bookmark adds $\$5$, so $t = 3(8) + 5 = 29$.
- 22) **Choice B is correct.** (7.G.1-7.G.5) Divide actual length by scale factor: $8 \div 2 = 4$ cm.
- 23) **Choice A is correct.** (7.G.1-7.G.5) Divide actual by drawing: $6 \text{ m} \div 3 \text{ cm} = 2 \text{ m per cm}$. Scale is $1 \text{ cm} : 2 \text{ m}$.
- 24) **Choice B is correct.** (7.G.1-7.G.5) A plane through the apex and the base of a cone creates an axial cross-section. The two equal sides are slant heights of the cone, and the base is the diameter of the base circle, forming an isosceles triangle.
- 25) **Choice A is correct.** (7.G.1-7.G.5) Supplementary angles sum to 180° : $X = 180 - 47 = 133^\circ$.
- 26) **Choice C is correct.** (7.G.4-7.G.6) $V = \pi r^2 h \approx 3.14 \times 2.25 \times 11 \approx 77.715 \text{ ft}^3$.
- 27) **Choice B is correct.** (7.SP.1-7.SP.4) By only surveying Thursday morning customers, the sample is limited to that specific group. This is the actual population being sampled, even if it's not the bakery's intended population.
- 28) **Choice A is correct.** (7.SP.5-7.SP.8) Rolling 5 or 6: $\{5, 6\} = 2$ outcomes. Flipping Heads: 1 outcome. Favorable: 5H, 6H = 2 outcomes.
- 29) **Choice A is correct.** (7.NS.2d) Divide $5 \div 18 = 0.2777 \dots = 0.2\overline{7}$. Since $18 = 2 \times 3^2$, the factor 3 causes repetition after the first digit.



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Hi, Math Communicator!

◇ Grade 7 math is not only about getting a number. It is about explaining relationships and making your reasoning visible. ◇

★ **Remember this:** When you show steps, label diagrams, and write clear answers, you are joining the conversation that math is trying to have. You practiced across 7 full Grade 7 practice tests, and that repeated effort matters. ★

Communication Skills

- **Use Words:** Explain what the answer means.
- **Use Symbols:** Keep equations accurate.
- **Use Diagrams:** Show relationships visually.
- **Use Units:** Connect math to context.

Grade 7 test-day tip: For open-ended questions, answer in a complete thought: value, unit, and reason.

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

Jay Daie

Your Math Communication Coach

Practice Today. Succeed Tomorrow!

This book includes **7** full-length Math practice tests and **2** online tests to help Grade 7 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:

7 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 & Proportions
- ✓ The Number System
- ✓ Expressions & Equations
- ✓ Geometry
- ✓ Percents & Decimals
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ Algebraic Thinking
- ✓ And More!



2 ONLINE TESTS

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



2 EXTRA ONLINE TEST ACCESS CODE IS INSIDE THE BOOK!

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