

9 California CAASPP

GRADE 7

MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs

Program



9 PRINTED
TESTS



2 ONLINE
TESTS



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



BUILT FOR ACAP
Standards-Aligned



**STRENGTHEN
SKILLS**



**SHARPEN
THINKING**



BE TEST-READY
Improve Performance

9 California CAASPP Grade 7 Math Practice Tests

Standards-Aligned California Practice for Proportional Reasoning, Expressions, Geometry, Statistics, and Probability



Nine 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!

Nine focused rounds for sharper CAASPP math thinking

This book gives you nine 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

A nine-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?

Nine CAASPP tests, 360 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 7–9	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) Three-digit data in a stem-and-leaf plot with stem 14 and leaves 2, 5, 8 represents which values?
- ☐ A. 142, 145, 148 ☐ C. 14.2, 14.5, 14.8
☐ B. 1402, 1405, 1408 ☐ D. 214, 514, 814
- 2) If the probability of rain on Monday is $\frac{1}{4}$ and the probability of rain on Tuesday is $\frac{1}{3}$, and these events are independent, what is the probability of NO rain on both days?
- ☐ A. $\frac{1}{6}$ ☐ C. $\frac{1}{7}$
☐ B. $\frac{1}{12}$ ☐ D. $\frac{1}{2}$
- 3) A vendor sells items at a farmer's market and must pay a booth rental fee of \$35 per day plus \$0.50 per item sold. If the vendor sells 80 items, what is the total fee owed?
- ☐ A. \$35 ☐ C. \$75
☐ B. \$40 ☐ D. \$115
- 4) A rectangular prism with a square base has a base perimeter of 20 cm and a height of 8 cm. What is the volume? (Hint: find the side length of the square first.)
- ☐ A. 100 cm³ ☐ C. 200 cm³
☐ B. 160 cm³ ☐ D. 400 cm³
- 5) In a circle, two sectors have central angles: Sector X has a central angle of 40° , and Sector Y has a central angle of 80° . How does Sector Y 's area compare to Sector X 's area?
- ☐ A. Sector Y is half the size ☐ C. Sector Y is twice the size
☐ B. Sector Y is the same size ☐ D. Cannot be determined



6) A student borrows \$2500 for a bike at 9% simple interest per year. If the loan must be repaid in 18 months, how much interest will the student pay?

☐ A. \$225

☐ C. \$450

☐ B. \$675

☐ D. \$337.50

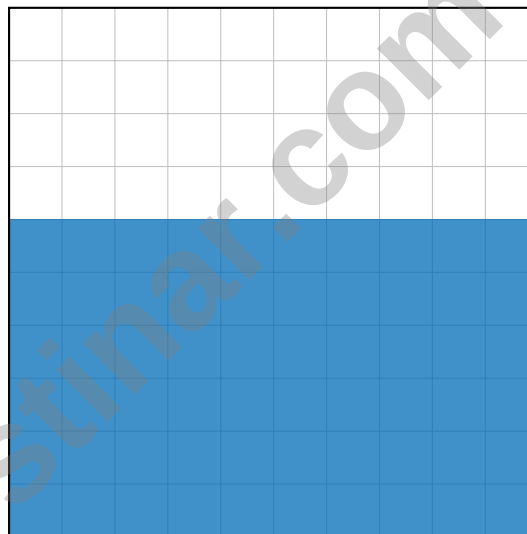
7) The width of a room on a floor plan is 2 inches. The actual room is 20 feet wide. What is the scale of the floor plan?

☐ A. 2 inches : 1 foot

☐ C. 1 inch : 10 feet

☐ B. 1 inch : 1 foot

☐ D. 1 inch : 20 feet



8)

Percent grid: 60 squares shaded of 100 total

The grid above shows a percent model. What percent is shaded?

☐ A. 40%

☐ C. 60%

☐ B. 50%

☐ D. 75%



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9) Evaluate $4x^2 - 3x$ when $x = 2$.

☐ A. 2

☐ C. 16

☐ B. 4

☐ D. 10

10) A student claims that $x = 5$ is a solution to $2x - 1 > 7$. Is the student correct?

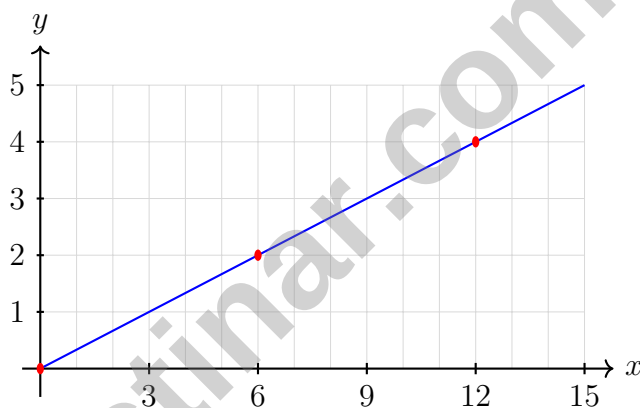
☐ A. Yes, because $2(5) - 1 = 9 > 7$

☐ C. Yes, the solution is exactly 5

☐ B. No, because $2(5) - 1 = 9 \not> 8$

☐ D. No, because $5 > 7$ is false

11) A graph shows points at $(0, 0)$, $(6, 2)$, and $(12, 4)$. If a fourth point is added, which coordinates would maintain the proportional relationship?



☐ A. $(4, 1)$

☐ C. $(12, 5)$

☐ B. $(8, 3)$

☐ D. $(15, 5)$



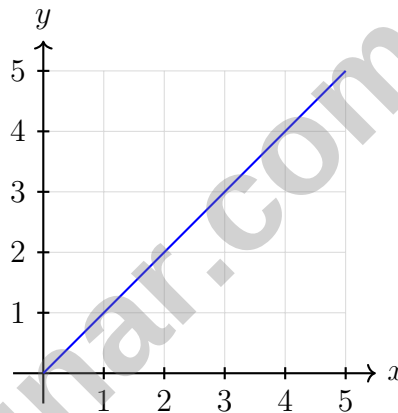
- 1) Complete the ratio table for a proportional relationship:

x	2	4	6	8
y	5	10	y_3	20

What is y_3 ?

- ☐ A. 12 ☐ C. 14
☐ B. 13 ☐ D. 15

- 2) Which graph represents a proportional relationship?



- ☐ A. Only if $x > 0$ ☐ C. Cannot determine from graph
☐ B. No, line does not go through origin ☐ D. Yes, line goes through origin

- 3) The equation $v = \frac{2}{7}w$ represents a proportional relationship. Which table matches this equation?

w	7	14	28
v	2	4	8

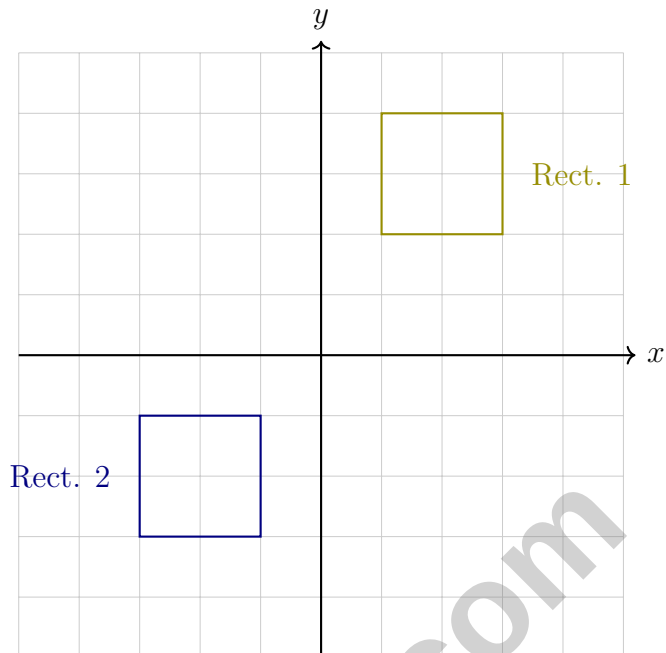
- ☐ A. No, the ratios are not constant ☐ C. No, the constant is 2
☐ B. No, the constant is $\frac{1}{4}$ ☐ D. Yes, this table matches $v = \frac{2}{7}w$



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- 4) A mason lays $\frac{3}{4}$ of a patio using $\frac{1}{2}$ ton of bricks. How many tons are needed for the entire patio?
- ☐ A. $\frac{1}{2}$ ton ☐ C. $\frac{1}{3}$ ton
☐ B. $\frac{3}{8}$ ton ☐ D. $\frac{2}{3}$ ton
- 5) A student earns \$12 per hour. The equation is $m = 12h$, where m is money earned and h is hours. What is the constant of proportionality?
- ☐ A. 6 ☐ C. 24
☐ B. h ☐ D. 12
- 6) Simplify: $9x^2 + 3x^2 + 2x - 4x$
- ☐ A. $12x^2 - 2x$ ☐ C. $11x^2 - x$
☐ B. $12x^3 - 2x$ ☐ D. $12x^2 + 2x$
- 7) A rope of length $8x + 12$ feet is cut into two pieces. If one piece has length $4x + 6$ feet, what is the length of the other piece?
- ☐ A. $4x + 6$ ☐ C. $12x + 18$
☐ B. $4x - 6$ ☐ D. $4x$





1)

Rectangle 1 is transformed to Rectangle 2. What single transformation maps Rectangle 1 to Rectangle 2?

- ☐ A. Translation by $(-4, -3)$ ☐ C. Reflection over the line $y = -1$
☐ B. Rotation of 180° about the origin ☐ D. Reflection over the y -axis

2) Solve: $\frac{x}{6} + 1 = 3$

- ☐ A. $x = 4$ ☐ C. $x = 18$
☐ B. $x = 12$ ☐ D. $x = 24$

3) Solve: $3(2x + 1) = 27$

- ☐ A. $x = 3$ ☐ C. $x = 9$
☐ B. $x = 4$ ☐ D. $x = 12$



- 4) A student's account balance is \$125.75. She makes purchases of \$42.50, \$18.25, and \$21.00. Then she deposits a check for \$75.50. What is her final balance?

- 5) A rectangular warehouse is drawn 7.5 inches by 10 inches at scale 1 in : 8 ft. What is the area of the actual warehouse in square feet?

- ☐ A. 75 ft² ☐ C. 3,600 ft²
☐ B. 2,400 ft² ☐ D. 4,800 ft²

- 6) A pentagonal pyramid is sliced by a plane parallel to its pentagonal base. What is the shape of the cross-section?

- ☐ A. Pentagon, similar to the base ☐ C. Trapezoid
☐ B. Rectangle ☐ D. Hexagon

- 7) Convert 0.000156 to scientific notation.

- 8) Two complementary angles are in the ratio 5 : 4. What is the measure of the smaller angle?

- ☐ A. 40° ☐ C. 36°
☐ B. 50° ☐ D. 45°



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California CAASPP 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 CAASPP practice test.



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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** (7.SP.1-7.SP.4) With a two-digit stem (14), leaves are the ones place: 142, 145, 148.
- 2) **Choice D is correct.** (7.SP.5-7.SP.8) $P(\text{no rain Mon}) = 1 - \frac{1}{4} = \frac{3}{4}$; $P(\text{no rain Tues}) = 1 - \frac{1}{3} = \frac{2}{3}$. Both: $\frac{3}{4} \cdot \frac{2}{3} = \frac{6}{12} = \frac{1}{2}$.
- 3) **Choice C is correct.** (7.RP.3) Total fee = $35 + (0.50 \times 80) = 35 + 40 = \75 .
- 4) **Choice C is correct.** (7.G.4-7.G.6) Side of square = $20/4 = 5$ cm. Base area = $5^2 = 25$ cm². Volume = $25 \times 8 = 200$ cm³.
- 5) **Choice C is correct.** (7.G.4-7.G.6) In the same circle, sector area is proportional to central angle. Since $80^\circ = 2 \times 40^\circ$, Sector Y is twice as large as Sector X.
- 6) **Choice D is correct.** (7.RP.3) STEP 1: Convert 18 months to years: $t = 18 \div 12 = 1.5$ years. STEP 2: $I = 2500 \times 0.09 \times 1.5 = \337.50 .
- 7) **Choice C is correct.** (7.RP.1-7.RP.3) Divide actual by plan: $20 \text{ feet} \div 2 \text{ inches} = 10 \text{ feet per inch}$, so scale is 1 inch : 10 feet.
- 8) **Choice C is correct.** (7.RP.3) The shaded region is $\frac{60}{100} = 60\%$ of the grid.
- 9) **Choice D is correct.** (7.EE.1-7.EE.2) Substitute: $4(2)^2 - 3(2) = 4(4) - 6 = 16 - 6 = 10$.
- 10) **Choice A is correct.** (7.EE.4b) Check: $2(5) - 1 = 10 - 1 = 9$, and $9 > 7$ is true. So $x = 5$ is indeed a solution.
- 11) **Choice D is correct.** (7.RP.1-7.RP.3) The ratio is $y/x = 2/6 = 1/3$. For a fourth point: $y = \frac{x}{3}$. Check: $(15, 5)$ gives $5 = \frac{15}{3}$ (correct).
- 12) **Choice D is correct.** (7.RP.1-7.RP.3) Check the ratios: $\frac{5}{2} = 2.5$, $\frac{10}{4} = 2.5$, $\frac{17.5}{7} = 2.5$. Because the ratio $\frac{\text{temperature change}}{\text{time}}$ is constant, the relationship is proportional and would pass through the origin. The constant is $k = 2.5$ degrees per minute.
- 13) **Choice D is correct.** (7.RP.3) Starting early maximizes the benefit of time in the market. Longer periods allow more interest to build, demonstrating the Grade-7 concept that time is a key factor in savings growth. Options A, C, and D are false or misleading.
- 14) **Choice A is correct.** (7.NS.1-7.NS.3) Same denominator: $\frac{5}{8} - \frac{7}{8} = -\frac{2}{8} = -\frac{1}{4}$.
- 15) **Choice A is correct.** (7.EE.1-7.EE.2) The student forgot to distribute the negative: should be $12x - 8 - 3x + 5 = 9x - 3$, not $9x - 13$. The error was not distributing the negative to both terms in the second expression.
- 16) **Choice A is correct.** (7.EE.3-7.EE.4) $5x - 10 + 10 = 40 + 10 \Rightarrow 5x = 50$. Then divide by 5: $x = 10$.
- 17) **Choice C is correct.** (7.G.1-7.G.5) Scale factor = $\frac{12}{8} = 1.5$.
- 18) **Choice D is correct.** (7.RP.1-7.RP.3) Unit rate: $\frac{8/3}{4} = \frac{8}{3} \times \frac{1}{4} = \frac{8}{12} = \frac{2}{3}$ yard per outfit.
- 19) **The correct answer is A,C.** (7.G.4-7.G.6) Option A is correct (60 m²). Option C is correct (18 m²). The true total is $60 + 18 = 78$ m², so D and
- 20) **Choice D is correct.** (7.RP.3) Discount: $\frac{35}{100} \times 60 = 21$. Sale price: $60 - 21 = \$39$.
- 21) **Choice C is correct.** (7.NS.1-7.NS.3) $12^2 = 144$ and $13^2 = 169$. Since $144 < 150 < 169$, we have $12 < \sqrt{150} < 13$.
- 22) **Choice D is correct.** (7.G.4-7.G.6) The correct area is $3.14 \times 5^2 = 78.5$ cm². The student multiplied $3.14 \times 5 = 15.7$, then doubled to 31.4, missing the squaring step.
- 23) **Choice C is correct.** (7.SP.5-7.SP.8) W has 3 sections and X has 4 sections, so $P(W \text{ or } X) = \frac{3+4}{10} = \frac{7}{10}$.
- 24) **The correct answer is 100 .** (7.SP.5-7.SP.8) Expected frequency: $0.5 \times 200 = 100$ times.
- 25) **The correct answer is 30 .** (7.RP.1-7.RP.3) Hourly rate = $180 \div 6 = 30$ dollars per hour.
- 26) **Choice A is correct.** (7.NS.2) $(2 \times 3) \times (-5) = 6 \times (-5) = -30$. Positive times negative is negative.
- 27) **Choice A is correct.** (7.EE.1-7.EE.2) $\text{gcd}(10, 15) = 5$, so $10y + 15 = 5(2y + 3)$.
- 28) **Choice A is correct.** (7.SP.6) Counting dots: Face 1 has 2, Face 2 has 3, Face 3 has 2, Face 4 has 3, Face 5 has 1, Face 6 has 3. Total: $2 + 3 + 2 + 3 + 1 + 3 = 14$ rolls. Face 4 appeared 3 times. Experimental probability: $\frac{3}{14}$.



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Hi, Confident Learner!

◇ This high-stamina book gave you nine substantial Grade 7 practice tests, so you had repeated chances to build accuracy, pacing, and confidence. Grade 7 math can feel big because it brings together rational numbers, expressions, equations, geometry, probability, and data. ◇

★ **Remember this:** But big topics become manageable when you practice one skill at a time. That is what you have been doing with every test in this book. ★

Confidence Builders

- **Know the Goal:** Identify what the question asks.
- **Use Vocabulary:** Math words point to math actions.
- **Show Work:** Give yourself something to check.
- **Celebrate Effort:** Practice is proof that you are moving.

Grade 7 test-day tip: When reviewing, do not only mark wrong answers. Write one sentence about what you learned from each one.

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

Jay Daie

Your Confidence Coach

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes **9** 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:

9 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!



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