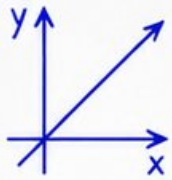
5 California CAASPP

GRADE 7 MATH

PRACTICE TESTS

Standards Aligned
Problem Solving
For Comprehensive
Assessment Programs



$y = mx + b$

$\frac{2}{3} + \frac{1}{6} = \frac{5}{6}$

$V = \pi r^2 h$

5 PRINTED TESTS

2 ONLINE TESTS

USE THESE TWO ADDITIONAL ONLINE PRACTICE TESTS FOR EXTRA REVIEW AFTER THE PRINTED TESTS IN THIS BOOK.

- Build Confidence
- Strengthen Math Skills
- Detailed Answers & Explanations
- Improve Test Performance

5 California CAASPP Grade 7 Math Practice Tests

Targeted Standards Practice with Answer Keys and Helpful Explanations

Five 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.

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Welcome, California Grade 7 Problem Solver!

Five focused rounds for sharper CAASPP math thinking

This book gives you five 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.

How to Use This Book

A five-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?

Five CAASPP tests, 200 questions, and a focused review path

Part	What You Will Practice
Tests 1–2	Proportional relationships, unit rates, percents, rational-number operations, and careful reading.
Tests 3–5	Expressions, equations, inequalities, scale drawings, geometry, data, probability, and multi-step problem solving.
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.

Table of Contents

1) Which is the simplest form of $5 - 9$?

☐ A. -4
☐ B. 4
☐ C. 14
☐ D. -14

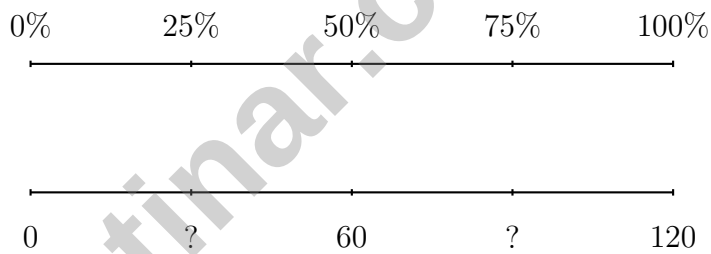
2) A diver is 15 feet below sea level. She swims up 8 feet. How many feet below sea level is she now? (Represent below sea level as negative.)

☐ A. -23 feet
☐ B. 23 feet
☐ C. 7 feet
☐ D. -7 feet

3) A sector in a circle graph has a central angle of 54°. What percent does it represent?

☐ A. 12%
☐ B. 15%
☐ C. 18%
☐ D. 20%

4)



On the double number line, what value corresponds to 25% if 100% equals 120?

☐ A. 15
☐ B. 20
☐ C. 25
☐ D. 30

5) An item originally costs \$120. After applying a discount and then adding a 7% sales tax, the final cost is \$107.10. What was the discount amount?

☐ A. \$30
☐ B. \$20
☐ C. \$12.90
☐ D. \$10

6) Olivia compares two budgets. Budget A: 40% expenses, 30% savings, 30% investments. Budget B: 45% expenses, 35% savings, 20% investments. How much more does Budget A allocate to investments than Budget B?

☐ A. 5%
☐ B. 20%
☐ C. 15%
☐ D. 10%

7) A lemonade stand charges \$0.75 per cup. What is the constant of proportionality for revenue per cup?

8) The table shows Jake's weight changes. What was his net weight change?

Month	Change (kg)
January	+2.5
February	−1.3

☐ A. −3.8 kg
☐ B. −1.2 kg
☐ C. 1.2 kg
☐ D. 3.8 kg

9) An account shows a balance of −\$360 (a debt). The debt is split equally among 4 people. What is each person's share?

☐ A. Each person owes \$90
☐ B. Each person receives \$90
☐ C. $(-360) \div 4 = -90$, so each person's debt is \$90
☐ D. Cannot divide debt

10) A chef needs to reduce a recipe to $\frac{2}{3}$ of its original size. The original recipe calls for 12 eggs. How many eggs are needed for the reduced recipe?

☐ A. 6 eggs
☐ B. 8 eggs
☐ C. 9 eggs
☐ D. 18 eggs

11) A car travels $\frac{5}{4}$ miles using $\frac{1}{8}$ gallon of gas. How many miles can it travel on 1 gallon?

☐ A. $\frac{32}{5}$ miles
☐ B. $\frac{5}{32}$ miles
☐ C. 5 miles
☐ D. 10 miles

12) A swimming pool fills at a constant rate. The table shows gallons of water at different times. Identify the y/x column that confirms proportionality.

Time (min)	3	6	9
Gallons	75	150	225
y/x	25	25	25

What is the unit rate?

☐ A. 75 gallons per minute
☐ B. 25 minutes per gallon
☐ C. 3 gallons per minute
☐ D. 25 gallons per minute

13) A proportional relationship between calories and grams of protein is given by $y = 4x$. How many grams of protein are in a food with 32 calories?

☐ A. 256 grams
☐ B. 36 grams
☐ C. 128 grams
☐ D. 8 grams

1) If a cylinder has a volume of 628 cubic feet and a height of 10 feet, what is the radius? Use $\pi \approx 3.14$.

☐ A. 2 feet
☐ B. 3.16 feet
☐ C. 4.47 feet
☐ D. 5 feet

2) In a sample of 160 grocery shoppers, 64 bought organic produce. The store has approximately 4000 customers per week. About how many buy organic produce?

☐ A. 1000
☐ B. 1200
☐ C. 1600
☐ D. 1800

3) A student deposits money into an account earning 6% simple interest. After 4 years, the total is \$2480. What was the original deposit?

☐ A. \$1800
☐ B. \$1950
☐ C. \$2000
☐ D. \$2200

4) A car travels at a constant speed of 55 miles per hour. Which equation relates distance d (miles) to time t (hours)?

☐ A. $d = t + 55$
☐ B. $d = \frac{t}{55}$
☐ C. $d = \frac{55}{t}$
☐ D. $d = 55t$

5) Two fair dice are rolled as a simulation of a compound event. If "success" is rolling a sum of 7, which of the following correctly identifies all successful outcomes?

☐ A. $(1,7), (2,7), (3,7), (4,7), (5,7), (6,7)$ — six outcomes
☐ B. $(1,6), (2,5), (3,4), (4,3), (5,2), (6,1)$ — six outcomes
☐ C. $(1,6), (2,5), (3,4)$ — three outcomes
☐ D. Any roll where one die shows 7 — multiple outcomes

6) Solve: $2x + 7 \geq -1$

☐ A. $x \geq -4$
☐ B. $x \geq 3$
☐ C. $x \leq -4$
☐ D. $x > -4$

7) Simplify $12x - 8x + 5y - 2y - x$, then evaluate when $x = 1$ and $y = 2$.

8) A map scale is given as 2 in : 5 miles. If the actual distance between two points is 20 miles, what is the distance on the map?

☐ A. 4 in
☐ B. 6 in
☐ C. 8 in
☐ D. 10 in

9) A school gymnasium is drawn at 9 cm by 15 cm on a blueprint with scale 1 cm : 4 m. The drawing is redone at scale 1 cm : 2 m. How many centimeters long is the gym on the new blueprint?

☐ A. 7.5 cm
☐ B. 15 cm
☐ C. 30 cm
☐ D. 60 cm

1) Which value of x satisfies $3x - 2 \leq 10$?

☐ A. $x = 5$
☐ B. $x = 4$
☐ C. $x = 8$
☐ D. $x = 10$

2) A scale drawing has a scale of 1 cm : 5 cm. What is the scale factor?

☐ A. 1
☐ B. 2
☐ C. 5
☐ D. 10

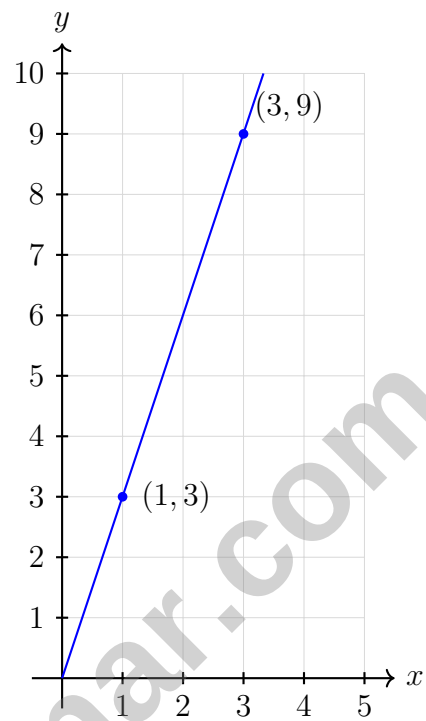
3) A rectangular sports field is 150 m by 100 m. A scale drawing is made at 1 cm : 25 m. What are the dimensions of the drawing?

☐ A. 6 cm by 4 cm
☐ B. 15 cm by 10 cm
☐ C. 25 cm by 16 cm
☐ D. 60 cm by 40 cm

4) A cylinder with radius 2 cm and height 8 cm is cut by a plane that makes a 45° angle with the base. What is the shape of the cross-section?

☐ A. Circle
☐ B. Rectangle
☐ C. Ellipse
☐ D. Triangle

5) A coordinate plane shows a line passing through $(1, 3)$ and $(3, 9)$. Does this line represent a proportional relationship?



☐ A. Cannot tell without more points
☐ B. No; points are not at origin
☐ C. Yes; constant slope is 3
☐ D. Yes; line passes through origin

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.

Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

1) **Choice A is correct.** 7.NS.1-7.NS.3 $5 - 9 = 5 + (-9) = -4$.
2) **Choice D is correct.** 7.NS.1b Position $= -15 + 8 = -7$. She is still 7 feet below sea level (represented as -7).
3) **Choice B is correct.** 7.SP.1-7.SP.4 $54° \div 360° \times 100 = 15\%$.
4) **Choice D is correct.** 7.RP.3 25% is $\frac{1}{4}$ of the total. $\frac{1}{4} \times 120 = 30$.
5) **Choice D is correct.** 7.RP.3 Working backward: $107.10 \div 1.07 = \$100$ before tax. So discounted price was \$100, making discount $= 120 - 100 = \$10$.
6) **Choice D is correct.** 7.RP.3 Difference $= 30\% - 20\% = 10\%$.
7) **The correct answer is** 0.75 **.** 7.RP.1-7.RP.3 Revenue is price per cup times cups sold, so the constant is 0.75.
8) **Choice C is correct.** 7.NS.1-7.NS.3 Net change: $2.5 + (-1.3) = 1.2$ kg net gain.
9) **Choice C is correct.** 7.NS.1-7.NS.3 $(-360) \div 4 = -90$ indicates each person's debt (or share) is \$90 (or $-\$90$ in ledger terms).
10) **Choice B is correct.** 7.NS.1-7.NS.3 Reduce to $\frac{2}{3}$ of original: $12 \times \frac{2}{3} = \frac{24}{3} = 8$ eggs.
11) **Choice D is correct.** 7.RP.1-7.RP.3 Unit rate: $\frac{5/4}{1/8} = \frac{5}{4} \times 8 = \frac{40}{4} = 10$ miles per gallon.
12) **Choice D is correct.** 7.RP.1-7.RP.3 The constant ratio $y/x = 25$ means 25 gallons per minute (the unit rate).
13) **Choice D is correct.** 7.RP.1-7.RP.3 From $y = 4x$, if $y = 32$, then $32 = 4x$, so $x = 32 \div 4 = 8$ grams.
14) **Choice C is correct.** 7.RP.3 Set up the proportion: part/whole = percent/100, so $\frac{2}{5} = \frac{p}{100}$. Cross-multiply: $p = 40\%$.
15) **Choice C is correct.** 7.NS.2d Divide $19 \div 25 = 0.76$. Since $25 = 5^2$, this is a terminating decimal. Multiply numerator and denominator by 4: $\frac{19 \times 4}{25 \times 4} = \frac{76}{100} = 0.76$.
16) **Choice B is correct.** 7.NS.1-7.NS.3 Perimeter $= 4s = 24$, so $s = 6$ meters. Area $= s^2 = 6^2 = 36$ m^2.
17) **Choice A is correct.** 7.NS.1-7.NS.3 Halved: $\frac{1}{2} \times \frac{9}{8} = \frac{9}{16}$ cups. Scaled by 4: $4 \times \frac{9}{16} = \frac{36}{16} = \frac{9}{4} = 2\frac{1}{4}$ cups.
18) **The correct answer is A,C.** 7.SP.1-7.SP.4 Sample 1: $\frac{48}{200} = 0.24$; Sample 2: $\frac{36}{150} = 0.24$; Sample 3: $\frac{60}{250} = 0.24$. All are equal, so A is correct. These proportions can be used to estimate the full population (C). B is false (all equal), D is misleading, and E contradicts the actual data.
19) **Choice D is correct.** 7.NS.1-7.NS.3 $5.0 \times 10^3 = 5{,}000$. Check: $0.05 \times 10^3 = 0.05 \times 1{,}000 = 50 \neq 5{,}000$.
20) **Choice B is correct.** 7.SP.5-7.SP.8 Red sector is $360° - 144° = 216°$. $P(\text{Red}) = \frac{216}{360} = \frac{3}{5} = 0.6$.
21) **Choice A is correct.** 7.EE.1-7.EE.2 The GCF of the coefficients 6 and 9 is 3. Factoring: $6x + 9y = 3(2x + 3y)$. This equivalent form uses the greatest common factor to show the structure: three groups of $(2x + 3y)$.
22) **Choice A is correct.** 7.SP.3 Club 1's data clusters at 22–28 pages with peak at 25 (range 10). Club 2 spreads from 10–40 pages (range 30), showing inconsistent reading habits.
23) **Choice C is correct.** 7.RP.3 Commission rate $= \frac{1000}{25000} = 0.04 = 4\%$.
24) **Choice D is correct.** 7.RP.3 Apply the compound interest formula $A = P(1 + r)^t$: $P = 10000$, $r = 0.04$. So $A = 10000(1 + 0.04)^t = 10000(1.04)^t$. (A is linear; C is simple interest; D confuses the base with the time variable.)
25) **Choice B is correct.** 7.G.4-7.G.6 Each trapezoid: $\frac{1}{2}(4 + 6) \times 3 = 15$ m^2. Two trapezoids: $15 \times 2 = 30$ m^2.
26) **Choice D is correct.** 7.RP.1-7.RP.3 Unit price $= \$15 \div 6 = \$2.50$ per notebook.
27) **Choice D is correct.** 7.RP.3 Interest: $0.0125 \times 800 = \$10$ per year.
28) **Choice D is correct.** 7.RP.1-7.RP.3 The point $(4, 5)$ is on the line; $k = y/x = 5/4 = 1.25$.
29) **The correct answer is** 3.9375 **.** 7.RP.1-7.RP.3 Scale: $\frac{1}{2}$ inch : 4 feet means 1 inch : 8 feet. Dimensions on plan: $18 \div 8 = 2.25$ inches and $14 \div 8 = 1.75$ inches. Area $= 2.25 \times 1.75 = 3.9375$ sq in.
30) **Choice A is correct.** 7.G.4-7.G.6 $V = 8 \times 6 \times 10 = 480$ cm$^3 = 480/1000 = 0.48$ L.
31) **Choice D is correct.** 7.RP.3 Need to go from \$400 000 to \$500 000. Increase $= \frac{500000 - 400000}{400000} \times 100\% = \frac{100000}{400000} \times 100\% = 25\%$.

Author's Note

A Page for Persistence

Hi, Persistent Problem Solver!

◇ Some Grade 7 questions ask you to hold several ideas in your mind at once. That can feel hard, and that is exactly why practice matters. ◇

⋆ **Remember this:** You showed persistence by continuing through the set. That habit is powerful because difficult problems often open after one more good attempt. You practiced across 5 full Grade 7 practice tests, and that repeated effort matters. ⋆

Persistence Tools

- **Try a Smaller Case:** Use an easier number to see the pattern.
- **Draw It:** Make the situation visible.
- **Restate It:** Say the question in your own words.
- **Check One Step:** Fix the first unclear place.

Grade 7 test-day tip: When stuck, do not restart everything. Find the first step you trust, then rebuild from there.

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

Jay Daie

Your Persistence Coach

PRACTICE TODAY.
SUCCEED TOMORROW!

This book includes **5** 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:

- **5** Full-Length Printed Tests
- **2** Online Practice Tests
- Detailed Answers & 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

Build Confidence
Practice regularly to feel prepared and test-ready.

Strengthen Math Skills
Develop key math concepts and problem solving abilities.

Improve Understanding
Learn with clear explanations and step-by-step solutions.

Test Confidence
Familiarize with test formats and improve accuracy and speed.

Boost Performance
Apply your knowledge and achieve your best score!

TOPICS COVERED

- Ratios & Proportions
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- 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!

Don't lose it—your extra practice and success start here!

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PRACTICE REGULARLY | STAY FOCUSED | SOLVE CONFIDENTLY | SUCCEED BRIGHTLY