

$\frac{2}{3}$

# FULL-LENGTH

$\frac{2}{4}$

# California

$7 \times 8 =$

$0,25$



Aligned to State Standards

# CAASPP

$7 \times 8$

# MATH

$56 \div 7$

Grade

# 5

$(a+b)^2$

# PRACTICE TESTS

Complete State Standards Review  
with Answer Key and  
Essential Math Skills Practice



**3 Full-Length Practice Tests**  
Aligned to State Standards



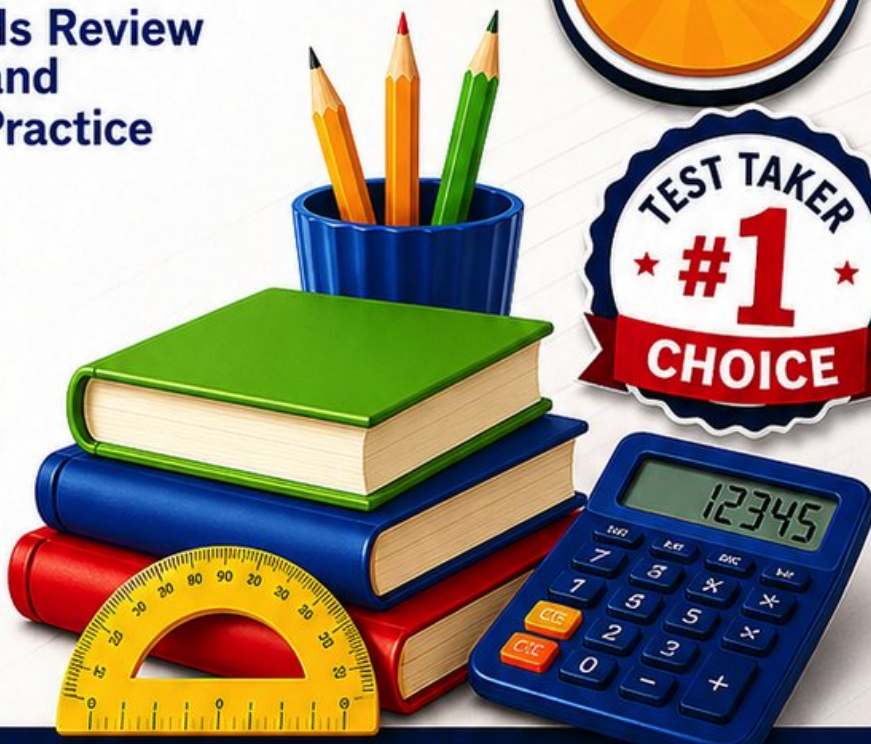
**Covers All Grade 5 Math Topics**  
Numbers & Operations, Fractions,  
Decimals, Geometry, Measurement,  
Data & Problem Solving



**Build Confidence**  
Strengthen Skills • Improve Accuracy  
• Boost Test Readiness



**Detailed Answer Key**  
Step-by-Step Explanations  
for All Questions



WRITTEN FOR  
GRADE 5 STUDENTS



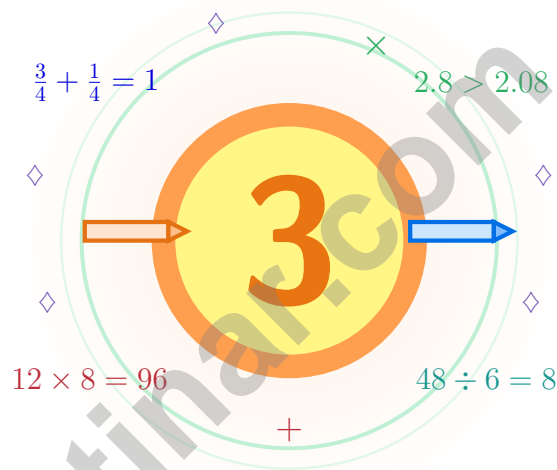
PERFECT FOR  
TEST PREP & REVIEW



CLASSROOM, HOME,  
OR SELF-STUDY USE

# 3 California CAASPP Grade 5 Math Practice Tests

*Math practice as wide as the Pacific and as tall as a redwood*



Three full tests, a friendly quick review, smart strategy pages, and student-tested support that help Grade 5 mathematicians from The Golden State walk in ready to think.

**Jay Daie and Reza Nazari**



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# Greetings, Young California Mathematician

Math practice as wide as the Pacific and as tall as a redwood

## To California Students Who Love a Puzzle

Strong math thinking grows the way a redwood grows – slowly, deeply, with strong roots and steady upward reach.

Some questions will feel easy from the very first read. Others will ask you to pause, sketch, estimate, or try again. That is not a problem. That is practice doing exactly what it should do. Every honest attempt grows your math brain a little stronger.

### Watch

Watch what the problem actually wants from you.

### Choose

Choose the operation, model, or table that fits.

### Polish

Check labels, units, and the final word of the question.

**A California promise to yourself:** I will plant my work in clear steps and grow it strong, the way California redwoods reach the sky a year at a time.

# How This Book Wants to Help

A simple game plan that turns practice into real progress

## Step 1: Open

**Open the quick review and warm up your math brain.**

Wake up the big Grade 5 ideas before the test starts so your brain is already warmed up.

## Step 2: Test

**Take a full practice test like the real day.**

Find a calm corner, settle in, and aim for careful, honest choices before quick ones.

## Step 3: Reflect

**Notice what felt strong and what felt shaky.**

Circle missed questions, sort out what went sideways, and notice which skills are calling for more attention.

## Step 4: Sharpen

**Practice the shaky skills, then try the next test.**

Read the explanation, fix the work, and carry that lesson forward into the next test.

## A California Three-Week Schedule

<b>Week 1</b>	Take Test 1 and write down one thing you noticed about your work.
<b>Week 2</b>	Take Test 2 and aim to fix one habit you noticed last week.
<b>Week 3</b>	Take Test 3 and celebrate the habits you carried through.



Scan me

## What to Expect Inside

### What these practice tests help Grade 5 students build

These three practice tests help Grade 5 students in the Golden State move through the California CAASPP with the steady focus of a coast trail walker. The goal is bigger than getting answers right. Students are practicing how to read with care, choose a strategy, solve step by step, and explain their reasoning clearly – the same way mathematicians do every single day.

#### Selected-Response Questions

Students solve the problem and choose the best answer. Estimating first, ruling out weak choices, and checking for reasonableness can save both time and points.

#### Constructed-Response Questions

Students show their steps, explain a method, or back up an answer with clear math. Clean reasoning matters because it shows how the answer was actually found.

#### Grade 5 Ideas That Show Up Again and Again

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, mixed numbers, and decimals
- perimeter, area, volume, and measurement conversions
- line plots, tables, numerical patterns, and coordinate points
- geometry and multi-step real-world problems

**What strong work looks like on the CAASPP:** the math is correct, the steps are readable, the labels and units match the problem, and the final answer truly answers the question being asked.



# Table of Contents

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## Grade 5 Mathematics Reference Materials

### PERIMETER AND AREA

Perimeter of Rectangle  $P = 2l + 2w$  or  $P = 2(l + w)$

Area of Rectangle  $A = l \times w$

Area of Triangle  $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism  $V = l \times w \times h$

### LENGTH

#### Customary

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

#### Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

1 kilometer (km) = 1,000 meters (m)

### CAPACITY

#### Customary

1 cup (c) = 8 fluid ounces (fl oz)

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

#### Metric

1 liter (L) = 1,000 milliliters (mL)

### WEIGHT AND MASS

#### Customary

1 pound (lb) = 16 ounces (oz)

#### Metric

1 kilogram (kg) = 1,000 grams (g)

1 gram (g) = 1,000 milligrams (mg)

### TIME

1 minute (min) = 60 seconds (sec)    1 week = 7 days

1 hour (hr) = 60 minutes (min)    1 year = 12 months

1 day = 24 hours (hr)    1 year = 52 weeks





- 4) On a coordinate grid, a point at (3, 9) shows a garden is 3 units right and 9 units up from the origin. What does the  $y$ -coordinate tell you?

*Record your answer in the space provided.*

- 5) A swimming pool is 25 m long, 10 m wide, 2 m deep. Find its volume.

*Record your answer in the space provided.*

- 6) Which equation is true after finding a common denominator?

A.  $\frac{1}{2} = \frac{3}{4}$   
 B.  $\frac{2}{3} = \frac{8}{12}$

C.  $\frac{1}{4} = \frac{2}{6}$   
 D.  $\frac{3}{5} = \frac{8}{10}$



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- 1) A scientist studies molecule counts. Order these from smallest to largest:  $2 \times 10^6$ ,  $25 \times 10^5$ ,  $22 \times 10^5$ .

Expression	Value
$2 \times 10^6$	2000000
$22 \times 10^5$	2200000
$25 \times 10^5$	2500000

- A.  $2 \times 10^6$ ,  $22 \times 10^5$ ,  $25 \times 10^5$        C.  $22 \times 10^5$ ,  $2 \times 10^6$ ,  $25 \times 10^5$   
 B.  $25 \times 10^5$ ,  $22 \times 10^5$ ,  $2 \times 10^6$        D. All are equal
- 2) A box weighs 3 lb 8 oz. What is its weight in ounces?

*Record your answer in the space provided.*

- 3)  $0.003 \times 10 = ?$
- A. 0.0003       C. 0.3  
 B. 0.03       D. 3
- 4) A student says that in the number 2.894, the digit 4 is worth 0.4. What error did the student make?
- A. The student read the digit in the wrong place; 4 is in the thousandths place, so it is worth 0.004.       C. The student correctly identified the value.  
 B. The student forgot to subtract before reading place values.       D. The student confused tenths and ones.



## Grade 5 Mathematics Reference Materials

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1) Which rectangular prism has a volume less than 200 cubic inches?

Prism	Length	Width	Height
P	10	5	4
Q	8	6	4
R	9	5	5
S	7	6	5

A. Prism P

C. Prism R

B. Prism Q

D. Prism S

2) A painter uses  $\frac{3}{5}$  of a gallon of paint per wall. He paints  $\frac{2}{3}$  of a wall. How much paint does he use?

A.  $\frac{5}{8}$  gallon

C.  $\frac{3}{5}$  gallon

B.  $\frac{6}{15}$  gallon or  $\frac{2}{5}$  gallon

D. 1 gallon

3) Show the division pattern with a shift table:

Dividend	Divisor	Quotient
4,500	10	450
4,500	100	45
4,500	1,000	?

What is  $4,500 \div 1,000$ ?

A. 0.45

C. 45

B. 4.5

D. 450



## Practice Test Answer Keys

### How to use this section:

1. check your answer
2. circle missed questions
3. rework them before reading the explanation

**Good correction habits build strong scores.**

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## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** **(5.NBT.5)** Multiply:  $24 \times 35 = 24 \times (30 + 5) = (24 \times 30) + (24 \times 5) = 720 + 120 = 840$  cars.
- 2) **Choice C is correct.** **(5.MD.4)** Each layer contains 15 unit cubes. Two identical layers make  $15 \times 2 = 30$  unit cubes in all.
- 3) **The correct answer is  $4\frac{1}{4}$ .** **(5.MD.2)** Count the X marks above each length. The length  $4\frac{1}{4}$  has 3 X marks, more than any other pencil length.
- 4) **The correct answer is 9 units up.** **(5.G.1)** In (3, 9), the second coordinate is the  $y$ -coordinate. It tells how far up the point is from the origin.
- 5) **The correct answer is  $500 \text{ m}^3$ .** **(5.MD.4)**  $25 \times 10 \times 2 = 500 \text{ m}^3$ .
- 6) **Choice B is correct.** **(5.NF.2)**  $\frac{2}{3} = \frac{2 \times 4}{3 \times 4} = \frac{8}{12}$  is correct. The other options are all false.
- 7) **Choice A is correct.** **(5.G.2)** The student reversed the order of the coordinates. Instead of writing the  $x$ -coordinate first and  $y$ -coordinate second, the student switched them.
- 8) **Choice C is correct.** **(5.OA.1)**  $9 \times 11 = 9 \times (10 + 1) = 9 \times 10 + 9 \times 1 = 9 \times 10 + 9$  by distributive property.
- 9) **Choice C is correct.** **(5.G.2)** The next first coordinate is 4. Use the rule:  $4(4) - 2 = 16 - 2 = 14$ , so the next point is (4, 14).
- 10) **Choice B is correct.** **(5.MD.3)** Area measures 2D flat space (square units); volume measures 3D solid space (cubic units). These are fundamentally different and use different unit types.
- 11) **Choice A is correct.** **(5.NBT.7)** Line up decimal points and subtract place by place.  $15.50 - 12.73 = 2.77$  cm decrease. This confirms the answer.
- 12) **Choice C is correct.** **(5.NBT.2)**  $10^5 = 100000$  and  $10^6 = 1000000$ , so this is true.
- 13) **Choice D is correct.** **(5.NBT.7)** Add:  $\$12.34 + \$15.67 = \$28.01$ ; then  $\$28.01 + \$18.92 = \$46.93$ .
- 14) **Choice B is correct.** **(5.NF.2)**  $\frac{1}{2} + \frac{1}{3}$  is about  $\frac{1}{2} + \frac{1}{2} = 1$ . Choice A is much closer to 0, while choices C and D are greater than 1.
- 15) **The correct answer is  $3\frac{1}{3}$ .** **(5.NF.4)** Convert the mixed numbers:  $2\frac{2}{3} = \frac{8}{3}$  and  $1\frac{1}{4} = \frac{5}{4}$ . Multiply to get  $\frac{40}{12}$ , which simplifies to  $\frac{10}{3} = 3\frac{1}{3}$ .
- 16) **Choice A is correct.** **(5.NBT.6)** If  $816 \div 17 = 48$ , then 408 (half of 816) divided by 17 gives half the quotient:  $408 \div 17 = 24$ .
- 17) **Choice A is correct.** **(5.OA.1)** First double the grouped amount (6 + 4), which is  $2 \times (6 + 4)$ . The words “subtracted from 25” mean place that doubled amount after 25—.
- 18) **Choice D is correct.** **(5.G.4)** An equilateral triangle has all angles equal to 60 degrees (acute), so it cannot have an obtuse angle.
- 19) **Choice A is correct.** **(5.MD.1)** Since 1 yard = 3 feet, multiply  $5 \times 3 = 15$ . The hallway is 15 feet long.
- 20) **Choice C is correct.** **(5.OA.1)** The parentheses make  $7 - 2 = 5$ . Then multiply before adding:  $3 \times 5 = 15$ , so the expression becomes  $15 + 15 = 30$ .
- 21) **Choices A, B are correct.** **(5.NBT.7)** Compare place by place. A and B are in increasing order. C is largest to smallest, and D has 0.605 out of order because  $0.605 < 0.65$ .
- 22) **Choice D is correct.** **(5.NBT.4)** 10.48 is between 10.4 and 10.5, closer to 10.5 because hundredths=8  $\geq$  5. Tenths digit 4 rounds up to 5, giving 10.5.
- 23) **Choice A is correct.** **(5.MD.4)**  $V = 16 \times 5 \times 3 = 240 \text{ in}^3$ .
- 24) **The correct answer is 5000.** **(5.MD.1)**  $5 \times 1,000 = 5,000$  m. Each kilometer has 1,000 meters, so 5 kilometers has five groups of 1,000 meters.
- 25) **Choice A is correct.** **(5.NF.4)**  $\frac{1}{6} \times 30 = \frac{30}{6} = 5$  students.
- 26) **Choice D is correct.** **(5.G.4)** Figure D is a rhombus with no right angles. It has two pairs of parallel sides, so it is a parallelogram, but it is not a rectangle.
- 27) **Choice B is correct.** **(5.NBT.2)** Dividing 0.85 meter into 10 equal pieces gives  $0.85 \div 10 = 0.085$  meter for each piece.
- 28) **Choice D is correct.** **(5.NF.6)** The unit fraction is the amount being shared, so divide  $\frac{1}{2}$  by 3. The equation is  $\frac{1}{2} \div 3 = n$ .



## Math Athlete, Listen Up!

◇ 3 practice tests done. That's serious training. Your math muscles are strong, your endurance is high, and your reflexes (recognizing problem types) are quick. You're in great shape for the big test. ◇

★ **Trainer's wisdom:** muscle memory is real, even in math. The more you do something, the more your brain knows how to do it without thinking. You've built that muscle memory over 3 tests. Now it's automatic. ★

### Athlete's Performance Card

- **Endurance:** TOP-TIER! You can finish a long test without burnout.
- **Strength:** STRONG! You handle multi-step problems with power.
- **Speed:** SHARP! You move efficiently from question to question.
- **Recovery:** GREAT! You bounce back fast from tough questions.

**Trainer's tip:** on test day, hydrate, breathe deeply, and warm up with the easier questions first. Build your rhythm. Your training will carry you the rest of the way.

If you'd like to share your experience or have questions, please email me at [reza@testinar.com](mailto:reza@testinar.com). I'd love to hear from you!

**Reza Nazari & Jay Daie**

Your Math Trainer (You're In Great Shape)

# Build Skills. Boost Confidence. Excel on the Grade 5 Math Test.

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