

$\frac{2}{3}$

# FULL-LENGTH

$\frac{2}{4}$

0,25

# Washington

$7 \times 8 =$



★★★★★  
Aligned to State Standards

$7 \times 8$

## Smarter Balanced

$56 \div 7$

# MATH

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



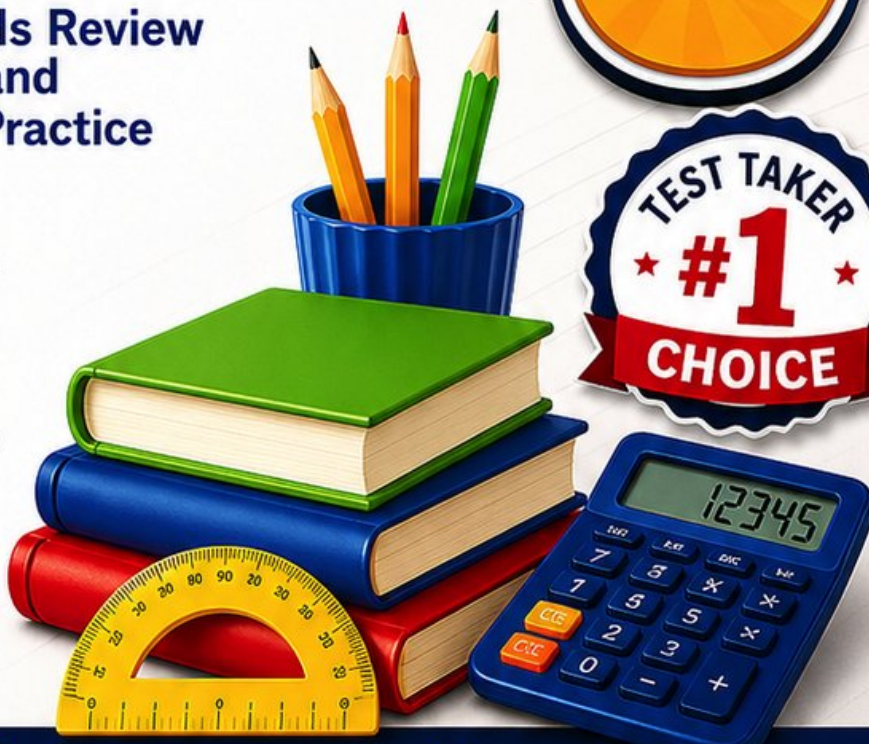
**Covers All Grade 5 Math Topics**  
Numbers & Operations, Fractions,  
Decimals, Geometry, Measurement,  
Data & Problem Solving



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



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



WRITTEN FOR  
GRADE 5 STUDENTS



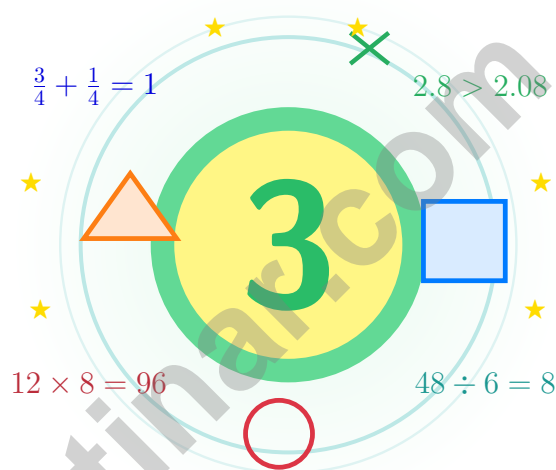
PERFECT FOR  
TEST PREP & REVIEW



CLASSROOM, HOME,  
OR SELF-STUDY USE

# 3 Washington Smarter Balanced Grade 5 Math Practice Tests

*Evergreen math for steady, focused thinkers*



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

**Jay Daie and Reza Nazari**



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# Hello, Washington Problem Solver

Evergreen math for steady, focused thinkers

## Dear Washington Math Thinker

Math is like a Mount Rainier trail – it rises steadily, rewards patience, and never asks you to rush.

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 Washington promise to yourself:** I will pace my work like a Cascades hiker – careful steps, steady breath, eyes on the ridge.

# Your Game Plan

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.

## Your 3-Week Washington Plan

<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.



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## What These Tests Build

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

These three practice tests prepare Grade 5 students in the Evergreen State for the Washington Smarter Balanced with the calm focus of a Pacific morning. 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 Smarter Balanced:** 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

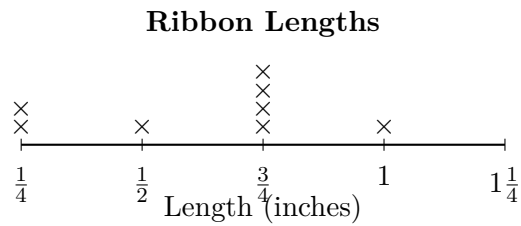
1 hour (hr) = 60 minutes (min)    1 year = 12 months

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





- 6) The line plot shows ribbon lengths in inches:



- What is the total length of the four ribbons that each measure  $\frac{3}{4}$  inch?
- A. 2 inches                       C. 3 inches  
 B.  $2\frac{1}{2}$  inches                       D. 4 inches
- 7) Pattern: 3, 6, 12, 24, ... What's next?
- A. 30                                   C. 36  
 B. 72                                   D. 48
- 8) Which expression represents "the sum of 15 and three times 4"?
- A.  $15 + 3 \times 4$                        C.  $(15 + 3) \times 4$   
 B.  $3 \times (15 + 4)$                        D.  $15 \times 3 + 4$
- 9) A roll has 6 meters of paper. Each craft uses one fourth meter. Which division equation matches the situation?
- A.  $\frac{1}{4} \div 6 = n$                        C.  $6 \div \frac{1}{4} = n$   
 B.  $6 \times \frac{1}{4} = n$                        D.  $6 + \frac{1}{4} = n$



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1) A refrigerator has dimensions of 28 inches wide, 30 inches deep, and 67 inches tall. Which unit would be most appropriate to measure its volume?

A. Square inches

B. Cubic inches

C. Inches

D. Linear feet

2) A box of items weighs 10 kg. You remove items weighing 3.75 kg. What is the new weight?

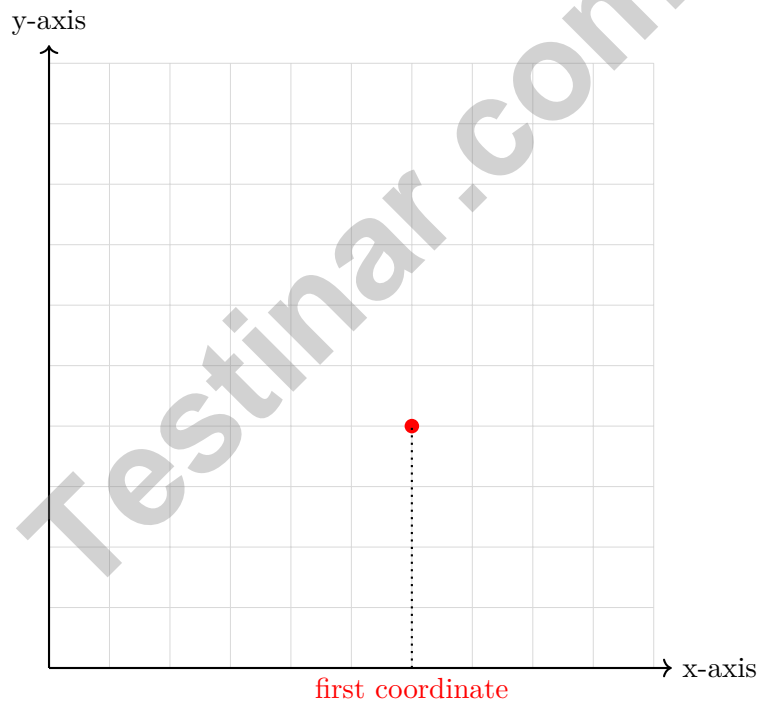
A. 6.25 kg

B. 7.00 kg

C. 6.15 kg

D. 5.75 kg

3) What is the x-coordinate of the point at (6, 4)?



A. 6

B. 4

C. 10

D. 2



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- 1) A pizza parlor sells large pizzas for \$16.50 and small pizzas for \$11.25. A party orders 2 large and 3 small pizzas. What is the total cost?

- A. \$75.75                                       C. \$66.75  
 B. \$71.25                                       D. \$79.50

- 2) 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?

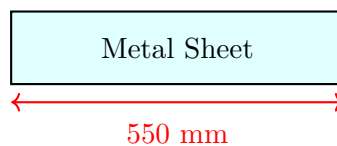
*Record your answer in the space provided.*

- 3) Place-value chart for 31.289. Round to the nearest tenth.

Tens	Ones	Tenths	Hundredths	Thousandths
3	1	2	8	9

What is the result?

- A. 31.2     C. 31.29  
 B. 31.28     D. 31.3
- 4) A metal sheet is 550 millimeters wide. What is the width in centimeters?



- A. 5.5 cm     C. 550 cm  
 B. 55 cm     D. 5,500 cm



## 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.A.2) Each multiplier has one more zero, so each product is 10 times as large as the one before it. That moves the decimal one more place right, giving 4,000.
- 2) **Choice D is correct.** (5.NF.B.7c)  $\frac{1}{3} \div 6 = \frac{1}{3} \times \frac{1}{6} = \frac{1}{18}$ .
- 3) **Choice B is correct.** (5.NBT.B.7) Add column by column: ones  $2 + 1 = 3$ ; tenths  $3 + 2 = 5$ ; hundredths  $4 + 5 = 9$ . Sum is 3.59.
- 4) **Choice C is correct.** (5.NBT.A.2) A, B, D are all true. C is FALSE:  $8.4 \div 10 = 0.84$ , not 8.4. (Dividing doesn't leave the number unchanged.)
- 5) **Choice B is correct.** (5.NF.A.2)  $\frac{1}{4} = \frac{2}{8}$ .  $\frac{6}{8} - \frac{2}{8} = \frac{4}{8} = \frac{1}{2}$ .
- 6) **Choice C is correct.** (5.MD.B.2) There are four ribbons at  $\frac{3}{4}$  inch. Their total length is  $4 \times \frac{3}{4} = 3$  inches.
- 7) **Choice D is correct.** (5.OA.B.3) Each term is twice the term before it: 3 becomes 6, 6 becomes 12, and 12 becomes 24. Keep that same rule, so  $24 \times 2 = 48$ .
- 8) **Choice A is correct.** (5.OA.A.2) "Three times 4" becomes  $3 \times 4$ . The phrase asks for the sum of 15 and that product, so use  $15 + 3 \times 4$ .
- 9) **Choice C is correct.** (5.NF.B.7c) Use total amount divided by the size of one piece. The equation is  $6 \div \frac{1}{4} = n$ .
- 10) **Choice A is correct.** (5.NF.B.4b) Model A:  $\frac{3}{4} \times \frac{2}{3} = \frac{6}{12} = \frac{1}{2}$ . Model B:  $\frac{1}{2} \times \frac{4}{5} = \frac{4}{10} = \frac{2}{5}$ . Since  $\frac{1}{2} > \frac{2}{5}$ , Model A shows the greater product.
- 11) **Choice C is correct.** (5.NF.A.1)  $18\frac{3}{5} - 12\frac{2}{5}$ : subtract whole numbers  $18 - 12 = 6$  and fractions  $\frac{3}{5} - \frac{2}{5} = \frac{1}{5}$ . Combine to get  $6\frac{1}{5}$  miles.
- 12) **Choice C is correct.** (5.NBT.B.7)  $3.6 \times 4 = 14.4$ . Following the pattern, each time the multiplier doubles, the product doubles.
- 13) **The correct answer is 3.47.** (5.NBT.A.3a) Read the place value to decide whether the decimal uses tenths, hundredths, or thousandths. Three wholes, then 47 hundredths: 3.47. This confirms the answer.
- 14) **Choice A is correct.** (5.NBT.A.2) Moving the decimal point 3 places to the left:  $5,400.0 \rightarrow 5.400 = 5.4$ .
- 15) **Choice B is correct.** (5.G.B.3) Any shape with 4 sides, 2 pairs of parallel sides, and 4 right angles is a rectangle. A square is a special rectangle where all sides are equal.
- 16) **Choice C is correct.** (5.NF.A.2)  $\frac{4}{9} \approx \frac{1}{2}$  and  $\frac{2}{5} \approx \frac{1}{2}$ . Sum:  $\frac{1}{2} + \frac{1}{2} = 1$ .
- 17) **Choice C is correct.** (5.MD.A.1) 5 lengths:  $5 \times 15 = 75$  meters. 3 widths:  $3 \times 8 = 24$  meters. Total:  $75 + 24 = 99$  meters. Convert:  $99 \times 100 = 9,900$  centimeters.
- 18) **Choice B is correct.** (5.G.B.4) A shape with opposite sides parallel and opposite sides equal is a parallelogram. The figure shown has these properties.
- 19) **Choice B is correct.** (5.NF.B.7c) Since  $5 \div \frac{1}{5} = 5 \times 5 = 25$ , the whole number is 5.
- 20) **Choice C is correct.** (5.NBT.A.3b) 0.105 has 1 tenth; 0.510 has 5 tenths. So  $0.105 < 0.510$ , making statement C FALSE.
- 21) **Choice D is correct.** (5.G.B.4) All three sides are equal (equilateral). An equilateral triangle always has three 60-degree angles (acute).
- 22) **Choices A, B are correct.** (5.NF.B.5b) Both A and B equal  $\frac{1}{6}$  because the same two factors can be multiplied in either order. C is  $\frac{1}{8}$ , and D is  $\frac{1}{9}$ .
- 23) **The correct answer is 120 in<sup>3</sup>.** (5.MD.C.5) One block has volume  $4 \times 3 \times 2 = 24$  cubic inches. Five blocks have total volume  $24 \times 5 = 120$  cubic inches.
- 24) **Choice D is correct.** (5.G.A.2) We need an input that gives an output of 8 after adding 3. Since  $5 + 3 = 8$ , the value of  $x$  is 5.
- 25) **The correct answer is  $\frac{5}{9}$ .** (5.NF.B.5a) Multiplying by 1 does not change the value, so  $1 \times \frac{5}{9} = \frac{5}{9}$ .
- 26) **Choice C is correct.** (5.OA.A.2) The distributive property works with subtraction too: 7 times the difference  $40 - 10$  equals  $7 \times 40 - 7 \times 10$ .
- 27) **The correct answer is 5 ft.** (5.MD.C.5) The base area is  $5 \times 5 = 25$  square feet. Since  $125 \div 25 = 5$ , the height is 5 ft.



## Champion in Training!

◇ What a season! You've completed 3 full practice tests, and that's the kind of training that builds real champions. Every test was a workout, and your math muscles are stronger today than they were before. Your stamina, focus, and accuracy have all leveled up. ◇

★ **Here's what every great coach knows:** the team that practices the most plays the best. You've put in the practice. You know the plays. You've handled the drills. Now it's almost game day, and you are ready. ★

### Your Training Camp Stats

- **Math Stamina:** HIGH! You can stay focused for a full test.
- **Strategy Playbook:** LOADED! You have multiple ways to attack a problem.
- **Mistake Recovery:** STRONG! You can pick yourself up and keep going.
- **Game Day Mindset:** READY! You know how to stay calm under pressure.

**Pre-game tip:** the night before test day, get a great sleep. Eat a good breakfast. Bring a sharp pencil and a positive attitude. And remember—you have already trained for this. Trust your training.

If you want to share a proud moment or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com). I'd love to hear from you!

**Jay Daie**

Your Math Coaches (Game On!)

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

Help your child succeed with confidence! This book includes **3 full-length Grade 5 Math practice tests** aligned to state standards. With a focus on essential skills, problem solving, and test readiness, it's the perfect resource for classroom, home, or on-the-go practice.



## WHAT'S INSIDE:



### 3 Full-Length Grade 5 Math Practice Tests

Realistic test format to build familiarity and confidence.



### Covers All Essential Math Topics

Fractions, decimals, geometry, measurement, data, number operations, and more.



### Build Strong Math Skills

Strengthen understanding and problem-solving through varied question types.



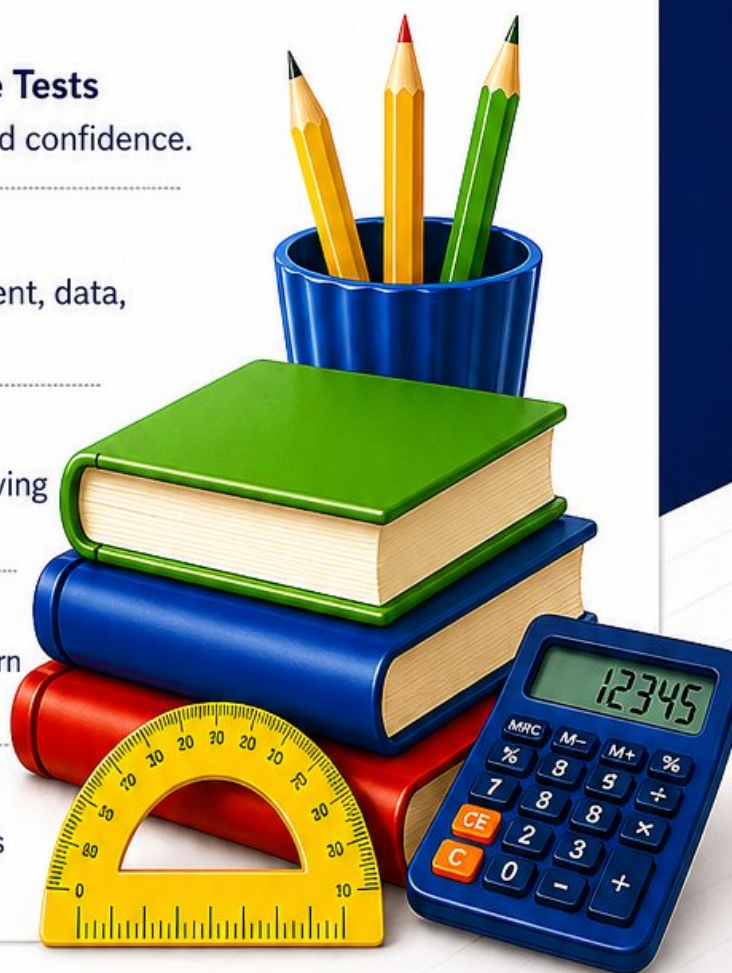
### Detailed Answer Key

Step-by-step explanations to help your child learn from mistakes and improve.



### Track Progress & Improve

Use score trackers to identify strengths and focus on areas that need more practice.



## The Smarter Way to Prepare!

Consistent practice builds stronger skills, sharper thinking, and test-day success.

- ✓ Reinforce classroom learning
- ✓ Improve accuracy and speed
- ✓ Reduce test anxiety
- ✓ Achieve your best score!



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