

6



Hawaii

Smarter Balanced

GRADE 5

MATH

PRACTICE TESTS

Complete Standards-Based Practice
— for Grade 5 Math Success —



$5^2 = 25$



6 FULL-LENGTH PRACTICE TESTS

Realistic style questions



STANDARDS-BASED PRACTICE

Covers all Grade 5 Math standards



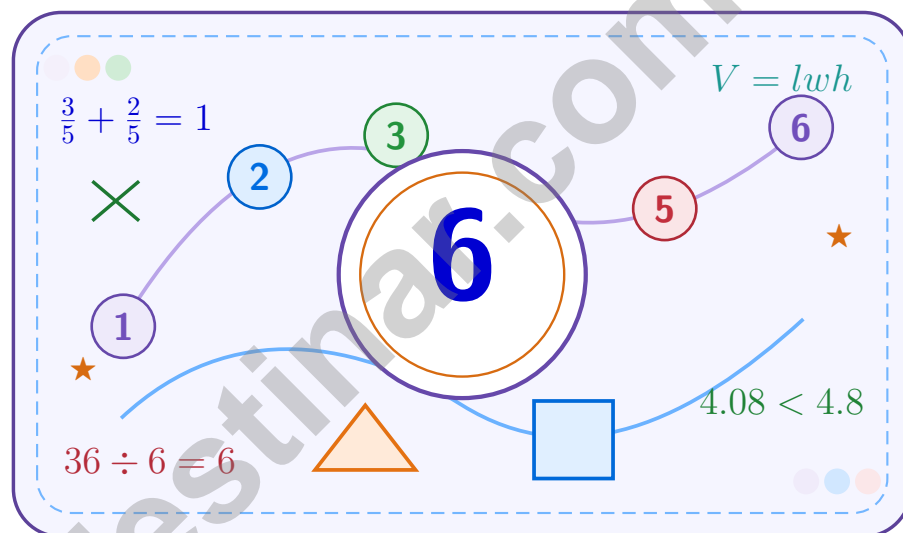
BUILD CONFIDENCE. IMPROVE SCORES.

Target weak areas and achieve success

★ STRONG PRACTICE. BRIGHT FUTURE. ★

6 Hawaii Smarter Balanced Grade 5 Math Practice Tests

A six-step confidence climb with clear review, smart strategy, and practice that gets stronger every round



Six full tests, a focused skill booster, and student-friendly support from start to finish for Grade 5 mathematicians who want to climb higher.

Jay Daie and Reza Nazari



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Welcome to the Confidence Climb

This book is here to help you practice with purpose and rise step by step

To the Grade 5 Mathematician

This practice book is a place to think, try, fix, and grow. You do not have to be perfect on the first question or the first test. What matters most is careful effort, clear work, and learning from each round of practice.

Use these six tests like stepping-stones. Take one test at a time, check your answers honestly, and notice which skills need more attention. Small improvements add up fast.

Try

Give each problem your best thinking.

Check

Study mistakes and learn what happened.

Rise

Bring that lesson into the next round.

A strong habit for every page: read carefully, estimate when it helps, show your steps, and keep going even when a question feels tricky. That is how steady math confidence is built.

How to Use This Book

A simple practice routine that turns six tests into steady growth

Step 1: Warm Up

Start with the quick review.
Spend a few minutes refreshing the ideas before you start a test.

Step 2: Take the Test

Take one full practice test.
Work in a quiet space and let accuracy matter more than speed.

Step 3: Study the Pattern

Check your work honestly.
Circle missed questions and notice patterns in the mistakes.

Step 4: Learn, Then Retry

Read the explanation and try again.
Learning happens after the test too. Fixing mistakes is one of the smartest parts of practice.

A Six-Week Climb Map

Week	Mission Focus
Week 1	Take Test 1 and review any place-value or operation slips.
Week 2	Take Test 2 and focus on showing neat, easy-to-read work.
Week 3	Take Test 3 and give extra time to fractions or decimals if needed.
Week 4	Take Test 4 and slow down on word problems and units.
Week 5	Take Test 5 and compare your score and habits with earlier rounds.
Week 6	Take Test 6 and finish with calm, careful, confident work that uses everything you practiced before.



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Test Overview

What this practice book helps students do

These practice tests are designed to help Grade 5 students get comfortable with the kind of thinking used on the Hawaii Smarter Balanced. The goal is bigger than only getting answers right. Students are practicing how to read closely, choose a strategy, solve carefully, and explain their work when needed.

Selected-Response Questions

Students solve the problem and choose the best answer. Estimating first and crossing out weak choices can save time and points.

Constructed-Response Questions

Students show their thinking, steps, models, or explanations. Even when unsure, writing what they know can help organize the problem.

Grade 5 Skills You Will Practice Often

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

What strong work looks like: the answer is correct, the steps are clear, the labels or units are included, and the final result makes sense.



Table of Contents

★ Practice Test 1	_____	16
★ Practice Test 2	_____	30
★ Practice Test 3	_____	45
★ Practice Test 4	_____	59
★ Practice Test 5	_____	73
★ Practice Test 6	_____	89
Practice Test Answer Keys	_____	106
Practice Test Answers and Explanations	_____	110

Grade 5 Mathematics

1

Questions: 40 Duration: No time limit

Calculator Policy: Calculators are not allowed



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)

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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



1) To add $\frac{1}{8}$ and $\frac{3}{12}$, what common denominator should you use?

A. 12

C. 96

B. 24

D. 8

2) What is $4,300 \div 10$?

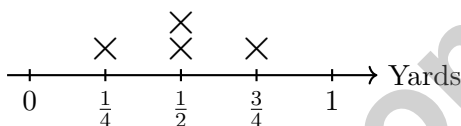
A. 4.3

C. 43,000

B. 43

D. 430

3) The line plot shows lengths of ribbon, in yards. What is the total length of all the ribbons?



Record your answer in the space provided.

4) Complex problem: Write the decimal for $1 + \frac{3}{10} + \frac{6}{100}$, then identify all the digits and their place values.

A. 1.36; 1 in ones, 3 in tenths, 6 in hundredths

C. 1.63; 1 in ones, 6 in tenths, 3 in hundredths

B. 1.306; 1 in ones, 3 in tenths, 0 in hundredths, 6 in thousandths

D. 0.136; correct place values



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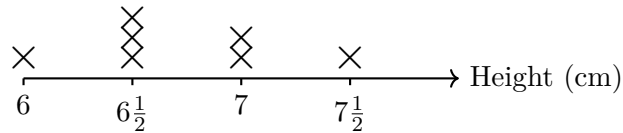
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1) A gift box: length 12 cm, width 8 cm, height 5 cm. Volume = ?

- A. 480 cm^3
 C. 96 cm^3
 B. 25 cm^3
 D. 60 cm^3

2) A line plot shows plant heights in centimeters:



What is the total height of all the plants?

Record your answer in the space provided.

3) Maria buys a sweater for \$42.50 and pants for \$38.75. She pays with a \$100 bill. How much change does she receive?

Item	Price
Sweater	\$42.50
Pants	\$38.75
Subtotal	?
Paid	\$100.00
Change	?

- A. \$25.00
 C. \$21.50
 B. \$20.25
 D. \$18.75



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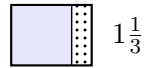
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 $2\frac{2}{3}$  $1\frac{1}{3}$

1)

Add: $2\frac{2}{3} + 1\frac{1}{3}$

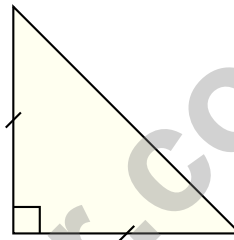
A. $3\frac{1}{3}$

C. 4

B. $3\frac{2}{3}$

D. $4\frac{1}{3}$

2) Look at the triangle. Which two classifications describe it?



A. Acute and scalene

C. Obtuse and isosceles

B. Right and isosceles

D. Equilateral and right

3) What is $12,000 \div 10^2$?

A. 1,200

C. 1.2

B. 12

D. 120

4) Which expression represents “4 times the sum of 8 and 3, then subtract 2 times 6”?

A. $4 \times 8 + 3 - 2 \times 6$

C. $4 \times (8 + 3) - 2 \times 6$

B. $4 + (8 + 3) - 2 \times 6$

D. $4 \times (8 + 3 - 2) \times 6$



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.NF.A.2) LCD of 8 and 12 is 24. $\frac{1}{8} = \frac{3}{24}$ and $\frac{3}{12} = \frac{6}{24}$.
- 2) **Choice D is correct.** (5.NBT.A.2) Dividing by 10 moves the decimal point one place to the left. $4,300 \div 10 = 430$.
- 3) **The correct answer is 2 yards.** (5.MD.B.2) Add the values shown by the line plot: $\frac{1}{4} + \frac{1}{2} + \frac{1}{2} + \frac{3}{4} = 2$ yards.
- 4) **Choice A is correct.** (5.NBT.A.3a) $1 + \frac{3}{10} + \frac{6}{100} = 1 + 0.3 + 0.06 = 1.36$. The digit 1 is in the ones place, 3 in tenths, 6 in hundredths.
- 5) **The correct answer is $\frac{1}{3} \div 4 = n$.** (5.NF.B.7c) The one-third yard is shared into 4 equal parts, so the response should include a division equation such as $\frac{1}{3} \div 4 = n$. The final value $\frac{1}{12}$ may be included if the equation is shown.
- 6) **Choice B is correct.** (5.NF.B.7c) $3 \div \frac{1}{2} = 3 \times 2 = 6$. She gets 6 pieces.
- 7) **The correct answer is 8 cm.** (5.MD.C.5a) Divide the volume by the base area: $240 \div 30 = 8$, so the height is 8 cm.
- 8) **Choice A is correct.** (5.OA.A.1) First find how many students the 6 buses would hold: $6 \times 32 = 192$. Then subtract the 8 absent students: $192 - 8 = 184$.
- 9) **Choice B is correct.** (5.NF.B.6) $3 \times \frac{5}{8} = \frac{15}{8}$. Convert to a mixed number: $\frac{15}{8} = 1\frac{7}{8}$ yards.
- 10) **Choice D is correct.** (5.MD.A.1) 1 gallon = 4 quarts = 8 pints = 16 cups. So 3 gallons = $3 \times 16 = 48$ cups.
- 11) **Choice A is correct.** (5.NF.B.4) $\frac{1}{6} \times 30 = \frac{30}{6} = 5$ students.
- 12) **The correct answer is $\frac{7}{12}$.** (5.NF.A.1) LCD = 12. $\frac{4}{12} + \frac{3}{12} = \frac{7}{12}$.
- 13) **Choice A is correct.** (5.NF.A.2) Equivalent fractions are made by multiplying or dividing the numerator and denominator by the same nonzero number. $\frac{3 \div 3}{6 \div 3} = \frac{1}{2}$.
- 14) **Choice D is correct.** (5.G.B.4) An equilateral triangle has three equal sides, so it also has at least two equal sides, making it isosceles. However, not all isosceles triangles are equilateral.
- 15) **Choice D is correct.** (5.NF.B.5b) The area model shows the distributive property: $3 \times 1\frac{2}{5} = 3 \times 1 + 3 \times \frac{2}{5} = 3 + \frac{6}{5} = 4\frac{1}{5}$.
- 16) **Choice B is correct.** (5.MD.A.1) Divide the total weight by the weight of one ream: $60 \div 5 = 12$ reams.
- 17) **Choice B is correct.** (5.NBT.A.2) 1,000 has three zeros and 100 has two zeros. Together they make 100,000.
- 18) **Choice C is correct.** (5.NF.B.5a) $10 \times \frac{3}{2} = 15$. The product is greater than 10 because the scaling factor $\frac{3}{2}$ is greater than 1.
- 19) **Choice A is correct.** (5.NF.B.5b) $\frac{5}{7} \times \frac{3}{4} = \frac{15}{28}$. The numerator and denominator share no common factor larger than 1, so the product is already in simplest form.
- 20) **Choice D is correct.** (5.NBT.A.1) $0.08 \times 10 = 0.8$. Multiplying by 10 moves the decimal point one place to the right.
- 21) **Choice B is correct.** (5.MD.C.5a) The base is $36 \times 12 = 432$ square inches. With a height of 48 inches, the volume is $432 \times 48 = 20,736$ cubic inches.
- 22) **Choices A, B are correct.** (5.G.A.2) The x-coordinate is read first, so 2 matches hours. The y-coordinate is read second, so 40 matches pages.
- 23) **Choice D is correct.** (5.OA.A.1) Solve each grouped part carefully: $9 \times 2 = 18$, and inside the bracket $3 + 2 = 5$, so $15 - 5 = 10$. Add the two results: $18 + 10 = 28$.
- 24) **Choice C is correct.** (5.NBT.A.2) $65 \times 10^2 = 65 \times 100 = 6500$ and $650 \times 10 = 6500$. Both equal 6500.
- 25) **Choice C is correct.** (5.OA.B.3) Pattern B is always 2 times Pattern A: $4 = 2 \times 2$, $8 = 2 \times 4$, and $12 = 2 \times 6$.
- 26) **Choice A is correct.** (5.G.B.3) Shape A is a right triangle. Its bottom and left sides meet at a right angle, so they are perpendicular, and no two sides of a triangle are parallel.
- 27) **Choice C is correct.** (5.NF.A.2) LCD = 24. $\frac{5}{12} = \frac{10}{24}$; $\frac{1}{8} = \frac{3}{24}$; $\frac{10}{24} - \frac{3}{24} = \frac{7}{24}$.
- 28) **Choice C is correct.** (5.NF.A.1) $11\frac{3}{4} - 6\frac{1}{4} = 5\frac{2}{4} = 5\frac{1}{2}$ lb.
- 29) **Choice C is correct.** (5.MD.C.3b) The base area is 24 square inches and the height is 3 inches, so the prism has 3 layers of 24 cubic inches. $24 \times 3 = 72$ cubic inches.
- 30) **Choice A is correct.** (5.NBT.A.2) A: $0.5 \times 100 = 50$. B: $0.5 \times 10 = 5$. C: $0.05 \times 100 = 5$. D: $50 \times 0.1 = 5$. The largest value is 50.



Hey there, Mathematical Inventor!

★ Brilliant innovation session! You've engineered solutions to six complete practice tests, designing creative approaches and building mathematical machines in your mind like a master inventor! Every problem you solved required you to design a solution strategy, test different approaches, and refine your methods. That's exactly what inventors do, and you've become exceptionally skilled at it! ★

◇ **Here's what successful inventors understand:** the first prototype rarely works perfectly. Great inventors test, adjust, redesign, and improve until they create something remarkable. You've practiced that exact process through these six tests! Each mistake taught you to refine your approach, and now you have a toolbox full of reliable mathematical inventions ready to use! ◇

Inventor's Workshop: Your Creations

- **Problem-Solving Blueprints:** You've designed reliable methods for every problem type!
- **Strategic Prototypes:** You test multiple approaches to find the most efficient solution!
- **Quality Testing:** You verify your answers to ensure accuracy before submitting!
- **Continuous Improvement:** You learn from feedback and consistently enhance your skills!

Remember this inventor's principle: preparation is the foundation of innovation! Six complete practice tests represent substantial preparation. You've tested your mathematical machines repeatedly, and they work beautifully. Test day is your opportunity to demonstrate your inventions to the world. Trust your engineering!

Want to patent a particularly clever solution method? Share your mathematical inventions at reza@testinar.com. I celebrate innovative thinking!

Reza Nazari & Jay Daie

Your Math Coaches (Mistakes Help You Learn)

6 FULL-LENGTH TESTS. ENDLESS POTENTIAL.

PRACTICE TODAY. SUCCEED TOMORROW.

Give your child the tools they need to build strong math skills and test-taking confidence! This book includes **6 full-length practice tests** along with standards-based practice, mixed review, word problems, and a complete answer key.

★★★
PRACTICE
WITH PURPOSE.
ACHIEVE WITH
CONFIDENCE.

WHAT'S INSIDE:



6 FULL-LENGTH PRACTICE TESTS

Realistic tests designed to reflect the actual test format and help build confidence.



STANDARDS-BASED PRACTICE

Covers all essential Grade 5 math standards with clear explanations and examples.



MIXED REVIEW

Reinforces key concepts with a variety of question types and review exercises.



WORD PROBLEMS

Build critical thinking and problem-solving skills with real-world scenarios.



COMPLETE ANSWER KEY

Step-by-step explanations for every question to support learning and growth.



IMPROVE. PRACTICE. ACHIEVE.

Consistent practice leads to stronger skills, higher scores, and greater success.



WHY PRACTICE MAKES A DIFFERENCE



BUILD CONFIDENCE

Feel prepared and ready for any challenge.



IMPROVE ACCURACY

Strengthen skills and reduce careless mistakes.



THINK STRATEGICALLY

Develop problem-solving skills and deepen understanding.



MANAGE TIME

Practice under timed conditions to build stamina.



STAY MOTIVATED

Track progress and celebrate every win.



ACHIEVE SUCCESS

Reach goals and unlock your full potential!



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Smart Practice. Stronger Results.