

# 10 COMPLETE Hawaii

Smarter Balanced

## GRADE 5 MATH PRACTICE TESTS

Standards-Based Review with  
Mixed Practice and Detailed Answer Key



### 10 Complete Practice Tests

Build confidence and test readiness



### Standards-Based Review

Covers key Grade 5 math standards



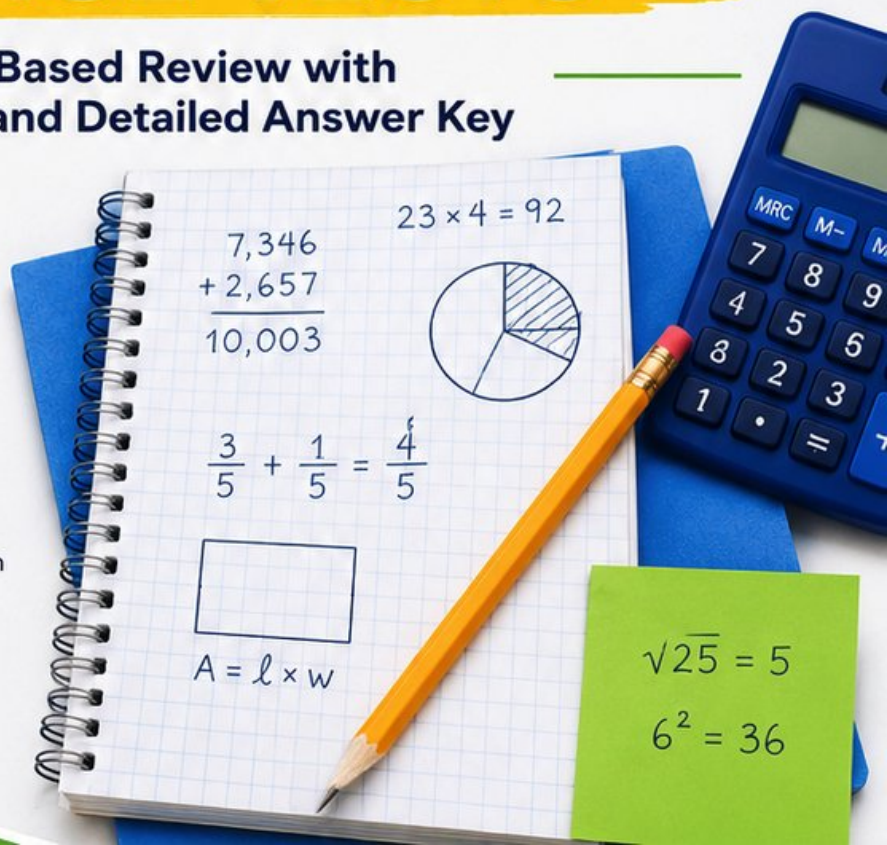
### Mixed Practice

Variety of question types to strengthen skills



### Detailed Answer Key

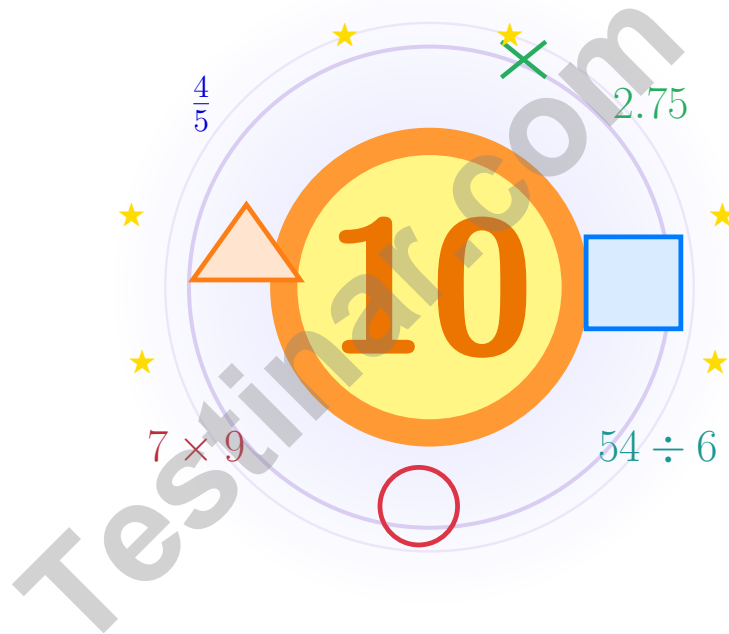
Step-by-step explanations for every question



PREPARE.  
PRACTICE.  
SUCCEED!

# 10 Hawaii Smarter Balanced Grade 5 Math Practice Tests

*Bright review, thoughtful practice, and steady confidence for Grade 5*



Ten full tests, a focused quick review, and student-friendly support that keeps practice clear and encouraging.

**Jay Daie and Reza Nazari**



# Copyright ©

## Testinar Inc



Published by Testinar Inc

[Testinar.com](http://Testinar.com)

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law, including Section 107 or 108 of the 1976 United States Copyright Act.

This publication is independently produced and has no official connection to any state, district, or national testing program.

Test names and organizational names used herein are the property of their respective trademark holders.



*Copyright ©*

# Welcome!

This book is a place to practice bravely and think clearly

## Dear Grade 5 Mathematician

This book gives you ten chances to read carefully, solve thoughtfully, and build steady math confidence. Some problems will feel friendly right away. Some will take more patience. Both kinds help you grow.

The goal is not to feel perfect before you begin. The goal is to practice honest effort, learn from corrections, and notice how much stronger your thinking becomes over time.

### Read

Slow down and understand the task.

### Solve

Show clear steps and good choices.

### Learn

Use mistakes as clues for what comes next.

**A strong habit from the start:** keep your work neat, estimate when it helps, write units carefully, and do not let one hard problem decide your mood for the whole page.



Scan me

# How to Use This Book

A simple routine that turns practice into real progress

## Step 1

**Warm up with the quick review.**

Spend a few minutes refreshing the ideas before the test begins.

## Step 2

**Take one full practice test.**

Work in a calm spot and aim for careful thinking before speed.

## Step 3

**Check your work honestly.**

Circle missed questions and notice which skills need another look.

## Step 4

**Fix and reflect.**

Read the explanation, repair the work, and bring that lesson into the next test.



**A Good 10-Week Rhythm**

<b>Week 1</b>	Take Test 1 and notice your starting strengths.
<b>Week 2</b>	Take Test 2 and slow down on word problems.
<b>Week 3</b>	Take Test 3 and sharpen multiplication and division checks.
<b>Week 4</b>	Take Test 4 and focus on fractions and decimals.
<b>Week 5</b>	Take Test 5 and watch your labels and units closely.
<b>Week 6</b>	Take Test 6 and practice calmer pacing.
<b>Week 7</b>	Take Test 7 and compare your habits with the earlier weeks.
<b>Week 8</b>	Take Test 8 and focus on tidy, checkable work.
<b>Week 9</b>	Take Test 9 and compare your progress with the way you worked in the earlier weeks.
<b>Week 10</b>	Take Test 10 and finish with steady, confident effort while using every strong habit you built.



# Table of Contents

★ Practice Test 1	_____	22
★ Practice Test 2	_____	37
★ Practice Test 3	_____	54
★ Practice Test 4	_____	69
★ Practice Test 5	_____	83
★ Practice Test 6	_____	100
★ Practice Test 7	_____	115
★ Practice Test 8	_____	128
★ Practice Test 9	_____	139
★ Practice Test 10	_____	151
<b>Practice Test Answer Keys</b>	_____	<b>166</b>
<b>Practice Test Answers and Explanations</b>	_____	<b>172</b>

## 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	Metric
1 foot (ft) = 12 inches (in.)	1 meter (m) = 100 centimeters (cm)
1 yard (yd) = 3 feet (ft)	1 centimeter (cm) = 10 millimeters (mm)
1 yard (yd) = 36 inches (in.)	1 kilometer (km) = 1,000 meters (m)

### CAPACITY

Customary	Metric
1 cup (c) = 8 fluid ounces (fl oz)	1 liter (L) = 1,000 milliliters (mL)
1 pint (pt) = 2 cups (c)	
1 quart (qt) = 2 pints (pt)	
1 gallon (gal) = 4 quarts (qt)	

### WEIGHT AND MASS

Customary	Metric
1 pound (lb) = 16 ounces (oz)	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



1) From the pattern “add 3, start at 2”, list ordered pairs (index, value) for indices 1–4:

- A. (1, 2), (2, 5), (3, 8), (4, 11)  
 B. (1, 5), (2, 8), (3, 11), (4, 14)  
 C. (2, 1), (5, 2), (8, 3), (11, 4)  
 D. (1, 3), (2, 6), (3, 9), (4, 12)

2) A jewelry item weighs 5.024 grams. Round to the nearest whole gram.

- A. 5 g  C. 5.1 g  
 B. 5.02 g  D. 6 g

3) Find:  $2\frac{2}{3} \times 1\frac{1}{4}$ .

*Record your answer in the space provided.*

4) A step-shaped solid is decomposed into three non-overlapping rectangular prisms. The prisms measure 5 inches by 3 inches by 2 inches, 3 inches by 3 inches by 4 inches, and 2 inches by 2 inches by 2 inches. What is the total volume?

- A. 74 cubic inches  C. 44 cubic inches  
 B. 66 cubic inches  D. 38 cubic inches

5) Which pair shows products that are equal?

$$6 \times \frac{3}{3}$$

$$6 \times 1$$

Are these equal?

- A. Cannot be determined  C. No, second is bigger  
 B. No, first is bigger  D. Yes, both equal 6



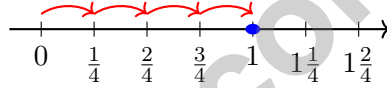
- 6) A store stacks 4 identical rectangular boxes. Each box measures 5 feet by 3 feet by 2 feet. What is the total volume of all the boxes?

- A. 30 cubic feet                       C. 150 cubic feet  
 B. 34 cubic feet                       D. 120 cubic feet

- 7) Pattern 1, 10, 100, 1,000, ... is:

- A. Powers of 10  
 B. Multiples of 10  
 C. Odd numbers  
 D. Doubling

- 8) Number line with hops of  $\frac{1}{4}$ :



What is  $4 \times \frac{1}{4}$ ?

- A.  $\frac{3}{4}$                                        C.  $\frac{1}{4}$   
 B. 4                                         D. 1

- 9) Find:  $\frac{1}{5} \div 4$ .

*Record your answer in the space provided.*



## 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

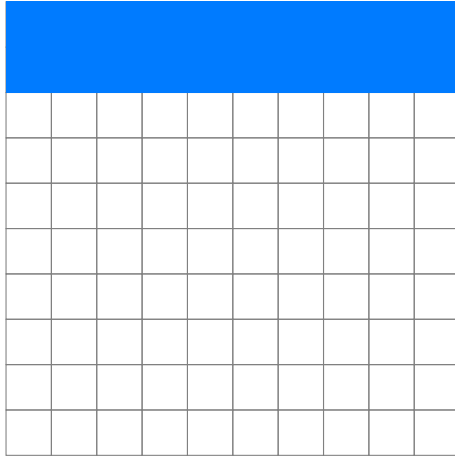
1 minute (min) = 60 seconds (sec)    1 week = 7 days

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

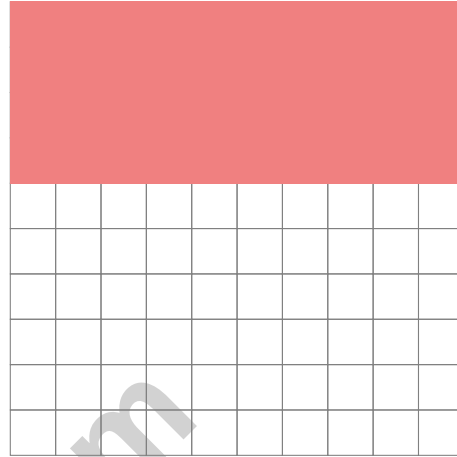
1 day = 24 hours (hr)    1 year = 52 weeks



- 1) Compare the two 10 by 10 grids. Grid A has 20 squares shaded; Grid B has 40 squares shaded. Which statement is true?



Grid A:  $\frac{20}{100}$



Grid B:  $\frac{40}{100}$

- A. Both grids show equivalent fractions  
 B. Grid A shows  $\frac{1}{5}$  and Grid B shows  $\frac{2}{5}$   
 C. Grid A is twice as much as Grid B  
 D. Grid B shows  $\frac{1}{5}$  and Grid A shows  $\frac{2}{5}$
- 2) Find:  $\frac{3}{8} \times \frac{4}{9}$ .

*Record your answer in the space provided.*



39) During a class field trip, 28 students and 4 adults travel by bus. The bus has 40 seats. How many empty seats are there?

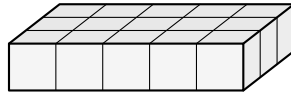
A. 12 seats

C. 10 seats

B. 6 seats

D. 8 seats

40) A rectangular box is 5 units long, 3 units wide, and 1 unit tall. How many unit cubes does it contain?



A. 8 unit cubes

C. 12 unit cubes

B. 15 unit cubes

D. 20 unit cubes

## End of Practice Test

Nice work. Pause, breathe, and check your answers with care.



Scan me

Grade 5 Mathematics

10

Questions: 40 Duration: No time limit

Calculator Policy: Calculators are not allowed



## 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.**

Testinar.com



Scan me

## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- Choice A is correct.** (5.G.A.2) Index 1: 2. Index 2:  $2 + 3 = 5$ . Index 3:  $5 + 3 = 8$ . Index 4:  $8 + 3 = 11$ .
- Choice A is correct.** (5.NBT.A.4) The tenths digit is 0. Since  $0 < 5$ , round down. The ones digit stays 5, giving 5 grams.
- The correct answer is  $3\frac{1}{3}$ .** (5.NF.B.5b) 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  $\frac{10}{3} = 3\frac{1}{3}$ .
- Choice A is correct.** (5.MD.C.5c) Work one prism at a time:  $5 \times 3 \times 2 = 30$ ,  $3 \times 3 \times 4 = 36$ , and  $2 \times 2 \times 2 = 8$ . Add the non-overlapping volumes:  $30 + 36 + 8 = 74$  cubic inches.
- Choice D is correct.** (5.NF.B.5a)  $\frac{3}{3} = 1$ , so  $6 \times \frac{3}{3} = 6 \times 1 = 6$ .
- Choice D is correct.** (5.MD.C.5) One box has volume  $5 \times 3 \times 2 = 30$  cubic feet. There are 4 boxes, so  $30 \times 4 = 120$  cubic feet.
- Choice A is correct.** (5.OA.B.3) Each term is made by multiplying the previous term by 10: 1, 10, 100, 1,000, ...
- Choice D is correct.** (5.NF.B.4) The number line counts four equal hops of  $\frac{1}{4}$ . After four fourths, you land on  $\frac{4}{4} = 1$ .
- The correct answer is  $\frac{1}{20}$ .** (5.NF.B.7c)  $\frac{1}{5} \times \frac{1}{4} = \frac{1}{20}$ .
- Choice C is correct.** (5.MD.C.5a) The base is  $12 \times 8 = 96$  square inches. With a height of 10 inches, the volume is  $96 \times 10 = 960$  cubic inches.
- Choice C is correct.** (5.NF.A.2)  $9\frac{3}{5} \approx 10$  and  $4\frac{2}{9} \approx 4$ . So  $9\frac{3}{5} - 4\frac{2}{9} \approx 10 - 4 = 6$ .
- The correct answer is 1.7 ft.** (5.NBT.B.7) Total length cut:  $2.75 + 3.8 + 4.25 = 10.8$  ft. Remaining length:  $12.5 - 10.8 = 1.7$  ft.
- Choice A is correct.** (5.MD.B.2) Add the fractional measurements shown:  $3(\frac{1}{2}) + 2(1) + 3(1\frac{1}{2}) + 2 + 2\frac{1}{2} = 12\frac{1}{2}$  hours.
- Choice B is correct.** (5.NBT.A.2) The first factor stays 6. When the multiplier is 10,000, the product is 6 followed by four zeros: 60,000.
- Choice B is correct.** (5.OA.A.1) Work outward:  $12 \div 3 = 4$ , then  $[4 + 1] = 5$ , then  $5 \times 2 = 10$ . The final subtraction gives  $10 - 3 = 7$ .
- Choice C is correct.** (5.MD.C.5a) Volume is the product of length, width, and height. Addition would give a linear measure, not a cubic measure.
- Choice C is correct.** (5.MD.A.1) Convert 2.5 L = 2,500 mL. Since  $2500 \div 750 \approx 3.33$ , 3 full batches are not enough, so 4 full batches are needed.
- Choice B is correct.** (5.NF.B.5b)  $\frac{2}{3} \times \frac{3}{5} = \frac{6}{15} = \frac{2}{5}$  gallon.
- Choice D is correct.** (5.MD.A.1) One route is 3,250 meters. Two routes are  $3,250 \times 2 = 6,500$  meters.
- Choices A, B are correct.** (5.MD.B.2) The value  $\frac{1}{2}$  appears two times, more than any other value. There are four measurements total, so C and D do not fit the data.
- Choice B is correct.** (5.MD.C.4) If there are 2 layers with 6 cubes each:  $6 + 6 = 12$  or  $6 \times 2 = 12$  unit cubes.
- The correct answer is 0.058.** (5.NBT.A.2) Dividing by 1,000 moves the decimal point three places left:  $58 \rightarrow 0.058$ .
- Choice B is correct.** (5.NF.B.7c) Each whole contains 8 pieces of size  $\frac{1}{8}$ . With 2 wholes, there are  $2 \times 8 = 16$  pieces.
- Choice A is correct.** (5.OA.B.3) The number of tomatoes is always 4 times the number of carrots:  $3 \times 4 = 12$ ,  $6 \times 4 = 24$ ,  $9 \times 4 = 36$ ,  $12 \times 4 = 48$ .
- Choice C is correct.** (5.OA.A.1) Multiply and divide from left to right:  $5 \times 10 = 50$ ,  $50 \div 2 = 25$ , and  $25 + 3 = 28$ .
- Choice D is correct.** (5.NBT.A.1) Both numbers have the same ones, tenths, and hundredths digits. Compare thousandths:  $6 < 9$ , so  $4.276 < 4.279$ .
- Choice C is correct.** (5.G.A.1) One repeat moves from (0, 0) to (2, 3). A second repeat adds another 2 to x and another 3 to y, giving (4, 6).
- Choice B is correct.** (5.NF.A.2) The GCF of 12 and 15 is 3. Divide:  $\frac{12}{15} = \frac{12 \div 3}{15 \div 3} = \frac{4}{5}$ .
- Choice D is correct.** (5.MD.C.5a) Volume =  $2 \times 3 \times 6 = 36$  ft<sup>3</sup>.
- The correct answer is 32448.** (5.NBT.B.5)  $507 \times 4 = 2,028$  and  $507 \times 60 = 30,420$ . Sum:  $2,028 + 30,420 = 32,448$ .



## Dear Hero of This Story,

◇ Once upon a time, there was a brave Grade 5 student who decided to take 10 practice tests. At first, the problems were tough. But the student kept showing up, kept trying, and kept learning. Slowly, the tough problems became easier. The student's confidence grew. By the time the 10<sup>th</sup> test was finished, that student had become the hero of their own math story. That student is you. ◇

★ **Storytellers know:** every great story has a hard middle. The hard middle is where the hero grows. You've lived your hard middle, and now your story is heading toward a strong ending: a confident test day. ★

### Your Hero's Toolkit

- **Brave Heart:** You face hard problems instead of running.
- **Sharp Mind:** You think carefully before you act.
- **Steady Hand:** You write neatly and check your work.
- **Kind Spirit:** You're patient with yourself when you make mistakes.

**Storyteller's tip:** when you sit down on test day, remember the hero you've become. The chapters before this moment have made you stronger. Now, write your best chapter yet.

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 Storyteller (The Best Pages Are Ahead)

# PRACTICE TODAY. MASTER TOMORROW.

Give your child the confidence to excel in **Grade 5 Math!**  
This book includes **10 complete practice tests** designed to build strong skills, improve test readiness, and achieve success.



# 10

COMPLETE  
PRACTICE  
TESTS

- ✓ Realistic. Rigorous.
- ✓ Results-Driven.

More practice today for a **stronger** tomorrow.



## THIS BOOK HELPS YOUR CHILD:



### Build Confidence

Familiar, focused practice reduces anxiety and boosts self-belief.



### Strengthen Skills

Reinforces key math concepts through high-quality, standards-aligned questions.



### Improve Test Readiness

Full-length tests help students understand test format, pacing, and question types.



### Track Progress

Identify strengths and target areas with purposeful practice.



### Achieve Success

Better preparation leads to higher scores and bright futures.

## COVERS ALL ESSENTIAL TOPICS

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Graphing & Data Analysis
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ And More!



Visit [testinar.com/math5](https://testinar.com/math5)

for more Grade 5 math resources and practice materials!



Aligned to Standards



Created by Educators



Trusted by  
Parents & Teachers