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# Hawaii

## Smarter Balanced

# GRADE 3 MATH PRACTICE TESTS

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Standards-Aligned  
Practice for Stronger  
Math Skills and  
Test Readiness



Build Confidence  
with Targeted Practice



Strengthen Skills  
in Key Math Concepts



Improve Test Readiness  
with Realistic Practice

Be Ready.  
Do Your Best!



# 3 Hawaii Smarter Balanced Grade 3 Math Practice Tests

*Standards-Aligned Practice for Stronger Math Skills and Test Readiness*



Three 30-question trail tests packed with Grade 3 review, Hawaii Smarter Balanced strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

**Jay Daie and Reza Nazari**



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# Welcome to the Hawaii Math Trail

Three tests, one trail, and a stronger Grade 3 thinker at the end



## To the Grade 3 Trail Scout

This book is your practice trail for the Hawaii Smarter Balanced. You will multiply and divide, read graphs, work with fractions, measure time, find area, and explain your thinking – one trail marker at a time.

Some problems will feel quick, like a clear stretch of wide open trail. Some will ask you to slow down, draw, count, or try again. That slow part is where strong math grows. Every page gives your brain another chance to spot, choose, and build.

### Spot

Read carefully and find what the problem is really asking.

### Sketch

Use numbers, arrays, number lines, or labels to make your thinking visible.

### Signal

Check that your answer makes sense before you wave the next question on.

**Trail promise:** I will read like a tracker, sketch like a planner, and check like a careful scout. I do not have to be perfect to keep moving forward.

# How to Use This Book

A four-step trail plan that turns practice into progress

## Step 1: Pack Your Pack

**Read the Quick Review first.**  
Wake up the Grade 3 ideas you will need before you set foot on the trail.

## Step 2: Hit the Trail

**Take one full test.**  
Thirty questions. Pencil sharp, work shown, calm pace – one marker at a time.

## Step 3: Campfire Check

**Check answers honestly.**  
Circle missed questions. Star any problem that felt confusing – those are tomorrow’s clues.

## Step 4: Track Back

**Fix a few mistakes.**  
Read the explanation, rework the problem, and carry that lesson up the next stretch of trail.

## A Three-Week Trail Plan

<b>Week 1</b>	Hike Test 1. Map what feels strong and what needs a second look.
<b>Week 2</b>	Hike Test 2. Sharpen the habits: read slow, sketch the model, label every number.
<b>Week 3</b>	Hike Test 3. Bring everything – facts, models, checks, and calm focus.

**Best trail habit:** Do not only ask, “What did I score?” Ask, “What did I learn how to do better?”



# Test Overview

## What waits on the trail and what each practice test builds

Each practice test has 30 questions. Together they walk you through the kind of math thinking the Hawaii Smarter Balanced asks Grade 3 students to use: read carefully, choose a strategy, show work, and check whether an answer makes sense.

### Selected-Response Questions

Pick the best answer from the choices. Strong scouts estimate first, cross out answers that cannot be right, and reread the question before circling.

### Open-Ended Questions

Write the answer and show the thinking. A clear response uses neat numbers, helpful labels, and a short model or explanation.

### Grade 3 Ideas You Will Meet on the Trail

- multiplication, division, arrays, equal groups, and fact fluency
- rounding, adding, subtracting, and multiplying by multiples of 10
- fractions, number lines, equivalent fractions, and comparing fractions
- time, mass, liquid volume, picture graphs, bar graphs, and line plots
- area, perimeter, unit squares, rectangles, and shapes
- two-step word problems and explaining a solution path

**What strong Smarter Balanced work looks like:** the scout reads the whole problem, picks a sensible strategy, writes numbers neatly, labels the answer, and checks that the answer truly fits the question.



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& answers

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1) Noah has  $\frac{4}{1}$  pencils. How many whole pencils?

A. 1

C. 4

B. 2

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

2) Which skip-counting pattern has all even numbers?

A. Skip count by 3: 3, 6, 9, 12, ...

C. Skip count by 5: 5, 10, 15, 20, ...

B. Skip count by 7: 7, 14, 21, 28, ...

D. Skip count by 2: 2, 4, 6, 8, ...

3) Find  $27 \div 3$ . (Hint: Think of a multiplication fact:  $\square \times 3 = 27$ )

4) What is 513 rounded to the nearest 10?

A. 500

C. 513

B. 520

D. 510

5) Complete  $\frac{2}{4} = \frac{?}{8}$ .

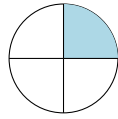
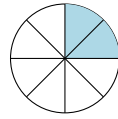
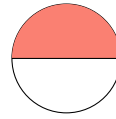


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- 1) Which choice lists all the pie charts that show fractions equivalent to  $\frac{1}{4}$ ?

Pie 1:  $\frac{1}{4}$ Pie 2:  $\frac{2}{8}$ Pie 3:  $\frac{1}{2}$ 

- A. Pie 1 only
- B. Pie 2 only
- C. Pies 1 and 2
- D. All three pies
- 2) If  $8 \times 3 = 24$ , what is  $3 \times 8$ ?
- A. 11
- B. 21
- C. 27
- D. 24
- 3)  $9 \times 10 = 90$ . What place-value name describes the digit 9 in the number 90?
- A. The ones place
- B. The tens place
- C. The hundreds place
- D. The zero place
- 4) A sheet of paper is 8 centimeters long and 4 centimeters wide. What is its area?
- A. 32 sq cm
- B. 24 sq cm
- C. 12 sq cm
- D. 36 sq cm



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5) Look at a column in the multiplication table:

Number	Product
$1 \times 6$	6
$2 \times 6$	12
$3 \times 6$	18
$4 \times 6$	24

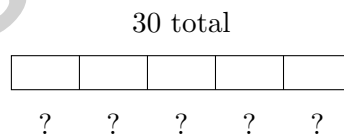
How much does each product increase?

- A. By 1  
 B. By 12

- C. By 4  
 D. By 6

6) Noah has  $\frac{12}{2}$  sheets of paper. How many whole sheets does he have?

7) Which division equation matches this bar model showing 30 split into 5 equal parts?

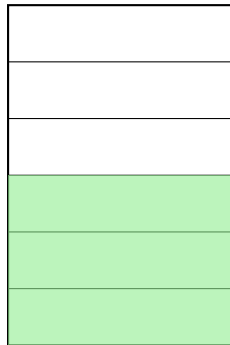


- A.  $30 \times 5 = 150$   
 B.  $30 - 5 = 25$

- C.  $5 + 6 = 11$   
 D.  $30 \div 5 = 6$



- 1) A rectangle has 6 equal parts. Sam colors 3 parts. Which fraction does Sam color?



- A.  $\frac{1}{6}$                        C.  $\frac{3}{6}$   
 B.  $\frac{2}{6}$                        D.  $\frac{4}{6}$
- 2) Mia buys 8 bags of candy. Each bag has 3 candies. How many candies does Mia buy?
- A. 11                               C. 18  
 B. 16                               D. 24
- 3) Which number sentence shows the distributive property?
- A.  $(2 + 3) \times 4 = 2 \times 4 + 3 \times 4$                        C.  $(2 + 3) \times 4 = 5 \times 4$   
 B.  $(2 + 3) \times 4 = 2 + 3 + 4$                                D.  $(2 + 3) \times 4 = 2 \times 3 \times 4$
- 4) A square has how many right angles?



5) Two rectangles have the same area. Rectangle 1 is 2 units by 9 units. Rectangle 2 is 3 units by ? units. What is the missing length?

A. 4 units

C. 6 units

B. 5 units

D. 7 units

6) What is  $8 \times 60$ ?

Hundreds	Tens	Ones
4	8	0

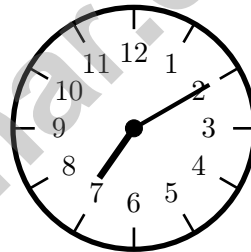
A. 68

C. 480

B. 86

D. 4800

7) Mia draws a clock with the hour hand on 7 and the minute hand on 2. What time does Mia's clock show?



A. 7 : 10

C. 2 : 35

B. 7 : 12

D. 2 : 07

8) Find  $72 \div 9$ .



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## Practice Test Answer Keys

**How to use this section with a Grade 3 student:**

1. check the answer first
2. mark questions to try again
3. rework the problem before reading the full explanation

**A calm correction routine builds stronger math habits.**

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## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- 1) Choice C is correct. **(3.NF.A.3c)**  $\frac{4}{1} = 4$ . Any number over 1 equals that number.
- 2) Choice D is correct. **(3.OA.D.9)** Skip counting by an even number always gives all even numbers.
- 3) The correct answer is 9. **(3.OA.B.6)**  $27 \div 3 = 9$  because  $9 \times 3 = 27$ . Division is the inverse of multiplication. To solve the division, we find the missing factor in the related multiplication fact.
- 4) Choice D is correct. **(3.NBT.A.1)** The ones digit is 3. Since  $3 < 5$ , round down: 513 rounds to 510.
- 5) The correct answer is 4. **(3.NF.A.3b)** The numerator doubles from 2 to 4.
- 6) Choice A is correct. **(3.OA.D.8)** Step 1: Marbles per group:  $42 \div 7 = 6$  marbles. Step 2: Lose from one group:  $6 - 3 = 3$  marbles.
- 7) Choice D is correct. **(3.NF.A.1)** When a whole is cut into  $b$  equal parts, one part is the unit fraction  $\frac{1}{b}$ . Here  $b = 8$ , so one slice is  $\frac{1}{8}$ .
- 8) Choice B is correct. **(3.NF.A.2a)** Three equal parts of size  $\frac{1}{6}$  each is  $\frac{3}{6}$  from zero.
- 9) Choice C is correct. **(3.NF.A.3)**  $\frac{1}{3}$  and  $\frac{2}{6}$  show the same shaded amount.
- 10) Choice A is correct. **(3.NBT.A.2)** Add to find the total:  $312 + 188 = 500$ . Ones:  $2 + 8 = 10$  (write 0, carry 1). Tens:  $1 + 8 + 1 = 10$  (write 0, carry 1). Hundreds:  $3 + 1 + 1 = 5$ .
- 11) Choice B is correct. **(3.MD.C.7a)**  $4 \text{ rows} \times 8 \text{ columns} = 4 \times 8 = 32$  tiles. Reverse order from typical.
- 12) Choice D is correct. **(3.OA.A.4)** Multiply:  $8 \times 4 = 32$  chairs.
- 13) Choice A is correct. **(3.OA.A.3)** Multiply rows by plants per row:  $4 \times 8 = 32$  plants.
- 14) Choice B is correct. **(3.MD.C.7d)** Left rectangle:  $3 \times 2 = 6$  sq units. Right rectangle:  $3 \times 1 = 3$  sq units. Total:  $6 + 3 = 9$  sq units.
- 15) Choice D is correct. **(3.NF.A.3a)** (i)  $\frac{1}{3}$  and (iv)  $\frac{2}{6}$  are equivalent because  $\frac{2}{6} = \frac{1}{3}$ . Both show one-third shaded.
- 16) Choices A and C are correct. **(3.NBT.A.3)**  $6 \times 40 = 240$  and  $4 \times 60 = 240$ . Choice B is  $8 \times 20 = 160$ , choice D is  $3 \times 70 = 210$ , and choice E is  $6 \times 30 = 180$ .
- 17) Choice B is correct. **(3.MD.C.5)** The shaded region is 4 units wide and 3 units tall.  $4 \times 3 = 12$  square units.
- 18) Choice B is correct. **(3.MD.C.5b)** Counting the 8 unit squares in the grid gives an area of 8 square units.
- 19) Choice B is correct. **(3.NF.A.2)** Reading left to right on the number line: first tick ( $\frac{1}{6}$ ), third tick ( $\frac{3}{6}$ ), fifth tick ( $\frac{5}{6}$ ). Least to greatest.
- 20) The correct answer is  $\frac{1}{2}$ . **(3.NF.A.3d)**  $\frac{1}{2}$  is larger, so it is closer to 1.
- 21) Choice C is correct. **(3.MD.A.2)** Multiply:  $400 \times 2 = 800$  g.
- 22) Choice B is correct. **(3.MD.C.7)** Adding the width 3 seven times:  $3 + 3 + 3 + 3 + 3 + 3 + 3 = 21$ . This is the same as  $7 \times 3 = 21$  square units.
- 23) Choice B is correct. **(3.MD.B.3)** Remaining hearts:  $8 - 3 = 5$ . Convert to stickers:  $5 \times 2 = 10$  stickers.
- 24) Choice D is correct. **(3.MD.C.6)**  $9 \times 3 = 27$  unit squares.
- 25) Choice C is correct. **(3.MD.C.5a)** A  $4 \times 4$  square needs  $4 \times 4 = 16$  unit squares (tiles of 1 foot by 1 foot).
- 26) Choice C is correct. **(3.OA.C.7)** There are 4 equal groups of 8 stickers, so  $4 \times 8 = 32$ .
- 27) Choice A is correct. **(3.MD.C.7c)**  $9 \times (2 + 2) = 9 \times 4 = 36$ , and we can show this as two  $9 \times 2$  rectangles side by side.
- 28) Choice D is correct. **(3.OA.A.1)** 8 batches with 3 eggs each means 8 groups of 3. So  $8 \times 3 = 24$  eggs.
- 29) Choice D is correct. **(3.NF.A.2b)**  $\frac{5}{3} = 1\frac{2}{3} \approx 1.67$ . This is past 1.
- 30) Choice B is correct. **(3.MD.B.4)** Add:  $2 + 4 + 2 = 8$  erasers total.

### Practice Test 2 Answers and Explanations



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## Hi, Hero!

◇ Once there was a Grade 3 student who took 3 practice tests. At first, the math was tricky. But this student kept showing up, kept trying, and kept learning. By the end, the student became a math hero. That hero is you! ◇

★ **Storytellers know:** every story has a hard middle. The hard middle is where heroes grow. You lived your hard middle. Your story ends with confidence! ★

### Your Hero Toolkit

- **Brave Heart:** You try hard problems.
- **Sharp Mind:** You think carefully before you act.
- **Steady Hand:** You write neatly and check.
- **Kind Spirit:** You are patient with yourself.

**Storyteller tip:** on test day, remember the hero you became. The chapters before today made you stronger. Now write your best chapter!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Storyteller

# 3 GRADE 3 MATH PRACTICE TESTS

Practice Today. *Succeed* Tomorrow!



Give your child the tools to build strong math skills and test confidence!

This book includes 3 full-length Grade 3 Math practice tests that mirror real test formats and cover all key math standards. With a wide range of question types and real-world problems, students will gain the practice and confidence they need to do their best!

## What's Inside?



### Standards-Aligned Practice

Questions designed to cover essential Grade 3 math standards.



### Variety of Question Types

Multiple-choice, short answer, and more to build well-rounded skills.



### Real-World Applications

Engaging problems that connect math to everyday life.



### Step-by-Step Progress

Track improvement and build confidence with every test.



### Build Skills & Boost Confidence

Strengthen understanding and feel prepared for test day.

## COVERS ALL ESSENTIAL TOPICS

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



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**PRACTICE. PREPARE. SUCCEED.**