



# 10

# Hawaii

## Smarter Balanced

# GRADE 3

# MATH

# PRACTICE TESTS

✓ Complete Standards Review

✓ Skill Practice

✓ Word Problems and Answer Key

2 × 7 + 4



★ ★ ★  
**PREPARE  
PRACTICE  
SUCCEED!**  
★ ★ ★



Aligned to  
Grade 3 Math  
Standards



Build Confidence  
and Master  
Math Skills



Test-Taking  
Practice for  
Success



Answer Key  
for Easy  
Review

# 10 Hawaii Smarter Balanced Grade 3 Math Practice Tests

*Standards-Aligned Review with Mixed Practice and Answer Key*



Ten complete 30-question Grade 3 practice rounds for Smarter Balanced, built around island trails, ocean patterns, and calm step-by-step thinking, with answer keys and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome, Hawaii Math Explorer!

Ten steady rounds on the Aloha State math route

This book gives you ten full Grade 3 practice tests for Smarter Balanced. Each round uses island trails, ocean patterns, and calm step-by-step thinking to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

## Hawaii Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

## How to Use This Book

A ten-session routine for Hawaii Smarter Balanced review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the Aloha State math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

**Good rhythm:** Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



## What Is Inside?

Ten tests, 300 questions, and a full Smarter Balanced review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 4–6	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Test 10	Final round to show growth across the whole Hawaii book.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.

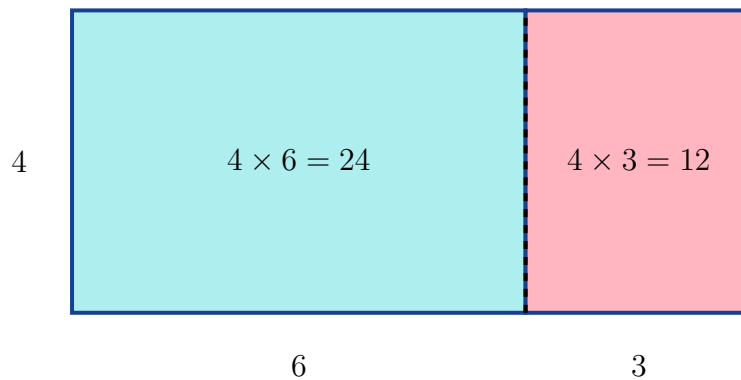


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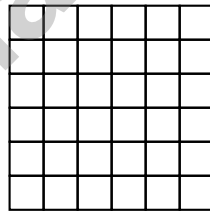
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- 1) Sam splits a rectangle to show  $4 \times 9 = 4 \times (6 + 3)$ .



What is the total product?

- A. 24                       C. 40  
 B. 32                       D. 36
- 2) Maya is laying square tiles on her kitchen floor. The floor is shaped like a large square with 6 tiles along one edge. Here is the layout:



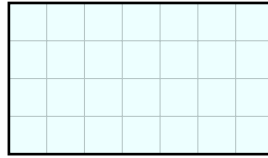
How many square tiles cover the entire floor?

- A. 12 tiles                       C. 36 tiles  
 B. 24 tiles                       D. 48 tiles



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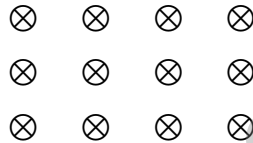
3) This shape is made of unit squares arranged in rows.



Count the total unit squares. What is the area?

- A. 11 sq units
- B. 28 sq units
- C. 22 sq units
- D. 35 sq units

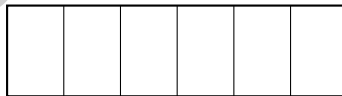
4)



What multiplication matches this equal-groups picture?

- A.  $6 \times 3 = 18$
- B.  $3 \times 5 = 15$
- C.  $12 \times 2 = 24$
- D.  $4 \times 3 = 12$

5) A rectangle is divided equally. One part is  $\frac{1}{6}$  of the whole. How many equal parts is the rectangle divided into?



- A. 4 parts
- B. 8 parts
- C. 3 parts
- D. 6 parts



6) A library has 137 books. Round this to the nearest 100 to estimate how many books the library has.

A. 100

B. 130

C. 137

D. 200

7) Which product is the greatest?

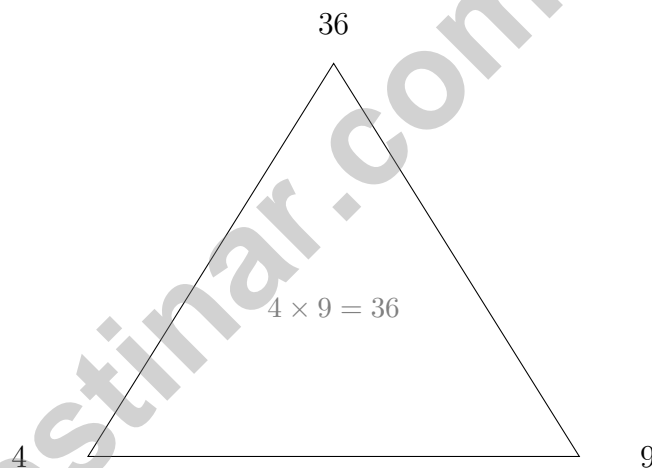
A.  $7 \times 40 = 280$

B.  $8 \times 30 = 240$

C.  $6 \times 50 = 300$

D.  $9 \times 20 = 180$

8) Look at the fact-family triangle. Which two divisions can you write?



A.  $36 \div 4 = 9$  and  $36 \div 9 = 4$

B.  $36 \div 9 = 36$  and  $36 \div 4 = 36$

C.  $4 + 9 = 13$  and  $36 - 13 = 23$

D.  $9 \div 4 = 2$  and  $36 \div 2 = 18$

9) A bar graph shows hours practiced. Piano: 6 units (scale: 2 hours per unit). Guitar: 4 units (scale: 2 hours per unit). How many more hours was piano practiced?

A. 2

B. 4

C. 8

D. 12



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1) Noah is tiling a rectangular floor. The floor is 9 feet long and 2 feet wide. How many square feet of tiles does he need?

A. 18 sq ft

B. 13 sq ft

C. 11 sq ft

D. 27 sq ft

2)  $354 + 186 = ?$

A. 540

B. 539

C. 549

D. 550

3) A picture graph shows ribbons. Each star represents 2 ribbons. Blue ribbons: 5 stars. Red ribbons: 3 stars. How many more blue ribbons than red?

A. 2

B. 4

C. 6

D. 10

4) What is  $7 \times 9$ ?

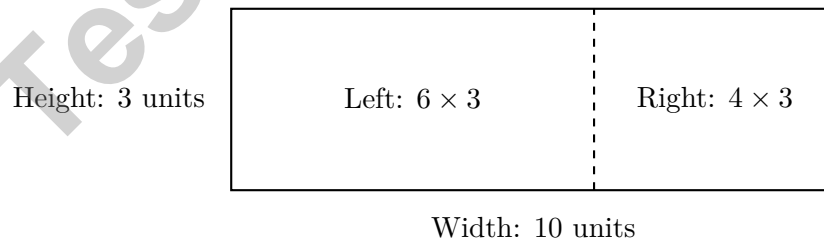
A. 56

B. 63

C. 70

D. 81

5) A rectangle is broken into two parts by a line:



Which sum of the two smaller areas gives the total area?

A.  $3 \times (6 + 4) = 30$

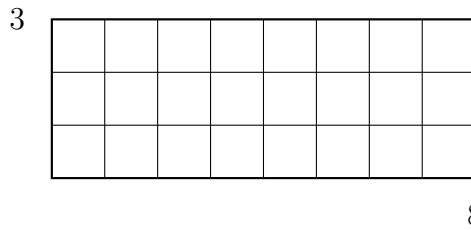
B.  $(3 \times 6) + (3 \times 4) = 18 + 12 = 30$

C.  $10 + 3 = 13$

D.  $6 + 4 = 10$



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6)

How many unit squares tile this wide rectangle?

 A. 11 C. 24 B. 18 D. 83

7) Use the multiplication fact  $6 \times 9 = 54$  to write a division equation.

 A.  $54 \div 6 = 9$  C.  $9 \div 6 = 1$  B.  $54 \div 9 = 6$  D.  $54 + 6 = 60$ 

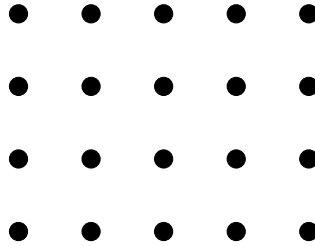
8) A square is 8 units on each side. A rectangle is 4 units by 16 units. Compare their areas. Which statement is true?

 A. The square has more area C. They have exactly the same area B. The rectangle has more area D. The square is longer

9) A chocolate bar is divided into 4 equal pieces. What fraction is one piece?



- 1) Look at the array diagram below showing groups of dots. Which division equation matches?



5 columns and 4 rows = 20 dots

- A.  $20 \div 5 = 4$ 
 C.  $20 \div 5 = 5$   
 B.  $20 \div 4 = 4$ 
 D.  $20 - 5 = 15$
- 2) Lily has one whole cake. Which fraction is this?
- A.  $\frac{1}{4}$ 
 C.  $\frac{1}{1}$   
 B.  $\frac{4}{1}$ 
 D.  $\frac{4}{5}$
- 3) Which statement is true about a unit square measured in centimeters?
- A. It has side length 2 cm and area 4 square cm
  C. It has side length 1 cm and area 2 square cm  
 B. It has side length 1 cm and area 1 square cm
  D. It has side length 5 cm and area 5 square cm
- 4) Which strategy would be MOST efficient for computing  $405 - 189$ ?
- A. Use the standard algorithm with regrouping across a zero
  C. Count up from 189 to 405 on a number line  
 B. Decompose both numbers by place value and subtract each part
  D. Round both numbers and subtract the rounded amounts



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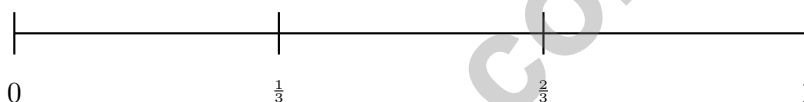
5) Ava covers a rectangular board with unit square tiles. The board is 7 units long and 7 units wide. How many tiles does she need?

- A. 14 tiles                       C. 42 tiles  
 B. 28 tiles                       D. 49 tiles

6) A picture graph shows toys. Rio has 8 symbols (scale: 3 toys per symbol). Alex has 5 symbols (scale: 3 toys per symbol). How many fewer toys does Alex have than Rio?

- A. 3                                   C. 9  
 B. 6                                   D. 12

7) Look at this number line divided into 3 equal parts. Which fraction is NOT on this line?

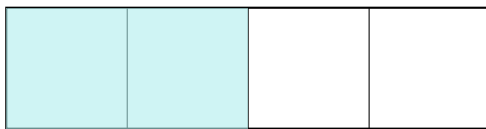


- A.  $\frac{1}{3}$                                    C.  $\frac{3}{3}$   
 B.  $\frac{2}{3}$                                    D.  $\frac{1}{4}$

8) A park needs sod for a rectangular field 9 feet long and 7 feet wide. What is the area?

- A. 32 sq ft                       C. 63 sq ft  
 B. 56 sq ft                       D. 72 sq ft

9) A rectangle is divided into equal parts. If  $\frac{4}{4}$  is the whole rectangle, which fraction shows half of the rectangle?



- A.  $\frac{1}{4}$                                    C.  $\frac{3}{4}$   
 B.  $\frac{2}{4}$                                    D.  $\frac{4}{4}$



## 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 turns every missed item into useful practice.**

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## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- Choice D is correct.** **(3.OA.B.5)**  $4 \times 6 = 24$  and  $4 \times 3 = 12$ , so  $24 + 12 = 36$ . The distributive property shows  $4 \times (6 + 3) = 4 \times 6 + 4 \times 3 = 36$ .
- Choice C is correct.** **(3.MD.C.5b)** Count the rows: 6 rows. Count down: 6 tiles in each row. Total:  $6 + 6 + 6 + 6 + 6 + 6 = 36$  square tiles.
- Choice B is correct.** **(3.MD.C.6)** 7 columns  $\times$  4 rows = 28 unit squares.
- Choice D is correct.** **(3.OA.A.1)** The picture shows 4 columns with 3 symbols in each column. This is 4 groups of 3, so  $4 \times 3 = 12$ .
- Choice D is correct.** **(3.G.A.2)** If one part is  $\frac{1}{6}$ , then the rectangle must be divided into 6 equal parts.
- Choice A is correct.** **(3.NBT.A.1)** The tens digit is 3. Since  $3 < 5$ , round down: 137 rounds to 100.
- Choice C is correct.** **(3.NBT.A.3)**  $6 \times 50 = 300$  is the greatest because  $300 > 280$ ,  $300 > 240$ , and  $300 > 180$ .
- Choice A is correct.** **(3.OA.B.6)** From the fact-family triangle with factors 4 and 9 and product 36, we write two divisions:  $36 \div 4 = 9$  and  $36 \div 9 = 4$ . The factors become quotients.
- Choice B is correct.** **(3.MD.B.3)** Piano:  $6 \times 2 = 12$ . Guitar:  $4 \times 2 = 8$ . More:  $12 - 8 = 4$ .
- The correct answer is 26 minutes.** **(3.MD.A.1)** From 11 : 38 to 12 : 00 is 22 minutes. From 12 : 00 to 12 : 04 is 4 minutes. Total:  $22 + 4 = 26$  minutes.
- Choice A is correct.** **(3.MD.C.7c)**  $35 = 7 \times 5$  and  $21 = 7 \times 3$ , so total is  $7 \times (5 + 3) = 7 \times 8 = 56$ .
- Choice C is correct.** **(3.NF.A.3)**  $\frac{4}{8}$  and  $\frac{1}{2}$  mark the same location on the number line.
- Choice D is correct.** **(3.OA.A.2)**  $24 \div 6 = 4$ . Divide the total pages by the number of days.
- Choices A and C are correct.** **(3.OA.A.3)** Choices A and C involve finding a total from equal groups. B, D, and E involve subtraction or addition of separate quantities.
- Choice D is correct.** **(3.OA.C.7)**  $42 \div 6 = 7$  because  $7 \times 6 = 42$ .
- Choice C is correct.** **(3.G.A.1)** The red sides (top and bottom) appear parallel to each other, and the blue sides (left and right) appear parallel to each other. This is a parallelogram.
- Choice B is correct.** **(3.MD.C.5)** Multiply length by width:  $8 \times 3 = 24$  tiles.
- Choice A is correct.** **(3.NF.A.3c)** Any whole number with denominator 1 equals that number.  $5 = \frac{5}{1}$ . Check: (B) is all fifths, (C) is a unit fraction, (D) is not whole.
- Choice C is correct.** **(3.NF.A.2)**  $\frac{3}{4}$  means 3 out of 4 equal parts. The distance from 0 to the mark contains exactly 3 parts.
- Choice C is correct.** **(3.MD.C.7)** Area =  $6 \times 3 = 18$  square units. You can also count by adding:  $3 + 3 + 3 + 3 + 3 + 3 = 18$  (six rows of three units each).
- Choice C is correct.** **(3.MD.C.7a)** Square tiling:  $5 \times 5 = 25$  square units.
- Choice B is correct.** **(3.NF.A.3a)**  $\frac{1}{4} = \frac{2}{8}$ . Both represent one-quarter of the bottle (see the shaded regions are equal).
- The correct answer is  $\frac{6}{8}$ .** **(3.NF.A.3b)** Multiply the numerator and denominator by 2:  $\frac{3 \times 2}{4 \times 2} = \frac{6}{8}$ .
- Choice C is correct.** **(3.MD.C.7d)** One part:  $10 \times 2 = 20$  sq units. Other part:  $4 \times 3 = 12$  sq units. Total:  $20 + 12 = 32$  sq units.
- Choice A is correct.** **(3.MD.C.5a)**  $3 \times 5 = 15$  unit squares. Option B is 16, C is 14, D is 12.
- The correct answer is 383.** **(3.NBT.A.2)** Add to find the starting amount:  $145 + 238 = 383$ . Check:  $383 - 145 = 238$ .
- Choice C is correct.** **(3.NF.A.2b)**  $\frac{4}{6}$  means count 4 copies of unit  $\frac{1}{6}$  starting at 0. The 4th tick mark is  $\frac{4}{6}$ .
- Choice A is correct.** **(3.MD.C.7b)** Area = length  $\times$  width =  $6 \times 4 = 24$  square inches.
- Choice B is correct.** **(3.MD.B.4)** Count the X's directly above the 4-inch mark. There are three X's stacked there.
- Choice A is correct.** **(3.NF.A.1)** The denominator (bottom number) tells us how many equal parts the whole is divided into. For example, in  $\frac{1}{4}$ , the 4 means the whole is divided into 4 equal parts.



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◇ Look what you did! 10 full practice tests. That's hundreds of math problems. You started as a learner. You are now a math athlete. ◇

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- **Mindset:** CHAMPION! You believe in yourself.

**Champion tip:** on test day, walk in proud. You trained for this. You are ready!

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 Coach

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Give your child the advantage they need in **Grade 3 Math** with 10 full-length practice tests that build skills, boost confidence, and improve results. Designed to mirror real test formats, this book helps students master essential math concepts and feel ready for any challenge.



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