

7

Hawaii

Smarter Balanced

Grade 3 MATH

PRACTICE TESTS

Standards-Aligned Practice with
Review, Answer Keys, and Explanations



7 Full-Length
Practice Tests



Standards-Aligned
Math Practice



Detailed Answer Keys
and Explanations



Build Confidence.
Achieve Success.

PREPARE
PRACTICE
SUCCEED

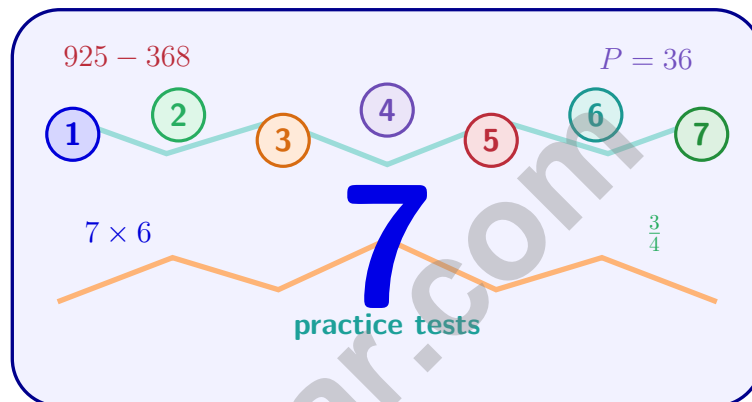


$4 \times 6 = 24$



7 Hawaii Smarter Balanced Grade 3 Math Practice Tests

Standards-Aligned Practice with Review, Answer Keys, and Explanations



Seven complete 30-question practice trails for Grade 3 math: operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome to the Seven Math Trails

Seven full tests, seven fresh chances, and one braver Grade 3 thinker



Read the trail. Mark the clues. Solve with care.

To the Grade 3 Math Trail Leader

This book gives you seven complete practice trails for the Hawaii Smarter Balanced. Each trail is a full 30-question test, so students can practice accuracy, stamina, and clear explanations over time.

Hawaii has volcano trails, island rain, ocean charts, reef patterns, and bright outdoor learning, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and notice patterns and explain what they mean.

Scout

Find what the problem is asking before you calculate.

Solve

Pick an equation, model, array, graph, or number line.

Prove

Check the answer and explain the thinking clearly.

Seven-trail promise: I will work with patience, use my scratch space wisely, and let every correction make my next test stronger.

How to Use This Book

A seven-trail routine for steady Grade 3 growth

Use one practice trail at a time. The goal is not to rush through more pages. The goal is to finish, check, repair, and bring a stronger habit to the next test. For Hawaii students, each trail moves through volcano trails, island rain, ocean charts, reef patterns, and bright outdoor learning: steady, alert, and ready for the next clue.

1. **Preview the tools.** Skim the reference page before each test.
2. **Take one test.** Work steadily and mark problems that need another look.
3. **Check the key.** Use the compact answer boxes first.
4. **Study explanations.** Read missed items and lucky guesses.
5. **Redo three problems.** Rewrite the work cleanly without copying.
6. **Name one habit.** Choose a focus such as labels, facts, fractions, or checking.
7. **Start the next trail.** Bring that habit into the next full test.

Best review habit: A missed problem is a trail marker. It shows where to slow down, look again, and choose a better step.



What Is Inside?

Seven complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–7	Solve seven different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
Reference Materials	Review measurement and time facts before each test.	Keep common tools close without turning pages backward.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read why each answer works.	Turn missed items into a clear next step.
Standards Reference	See how Hawaii Grade 3 standards connect to practice.	Understand the skills behind the questions.

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. This gives students practice with quick decisions, careful reading, and short written math answers for the Hawaii Smarter Balanced path.



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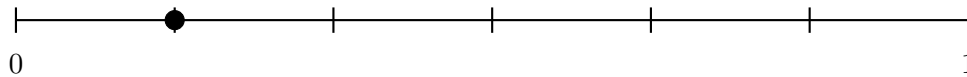
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1) Lily colors $\frac{4}{6}$ of a poster red. Which fraction shows the SAME amount?

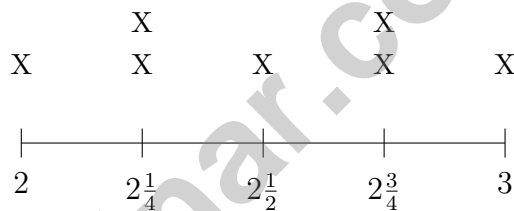
- A. $\frac{4}{8}$
 C. $\frac{2}{3}$
 B. $\frac{3}{4}$
 D. $\frac{1}{6}$

2) A number line from 0 to 1 has 6 equal parts. The dot shown is closest to which fraction?



- A. $\frac{1}{6}$
 C. $\frac{1}{5}$
 B. $\frac{2}{6}$
 D. $\frac{4}{6}$

3) A line plot shows stick lengths in feet: $2, 2\frac{1}{4}, 2\frac{1}{2}, 2\frac{3}{4}, 3$.

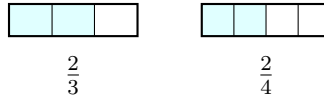


Which stick length has the same number of measurements as the $2\frac{1}{4}$ -foot length?

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

4) Which property is NOT true for all rectangles?

- A. All sides are equal in length
 C. They have 4 sides
 B. They have 4 right angles
 D. Opposite sides are equal in length



5)

Compare $\frac{2}{3}$ and $\frac{2}{4}$. Which is true?

- A. $\frac{2}{3} < \frac{2}{4}$ (bigger denominator = bigger fraction) C. $\frac{2}{3} > \frac{2}{4}$
- B. $\frac{2}{3} = \frac{2}{4}$ (both have numerator 2) D. $\frac{2}{4} > \frac{2}{3}$ ($4 > 3$, so $\frac{2}{4}$ is larger)



6)

Count all unit squares in this grid. What is the total?

- A. 12 unit squares C. 14 unit squares
- B. 13 unit squares D. 15 unit squares
- 7) Ava measures a rectangular mat that is 7 units by 5 units. What is its area in square units?
- A. 12 sq units C. 24 sq units
- B. 35 sq units D. 70 sq units
- 8) Find $9 \times (2 + 6)$.



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9) Maya has 100 beads. She uses 25 beads to make a necklace. She divides the rest equally into 5 bracelets. How many beads are in each bracelet?

A. 15

C. 25

B. 20

D. 75

10) What multiplication sentence helps you solve $21 \div 3$?

A. $3 \times 7 = 21$

C. $3 \times 8 = 24$

B. $3 \times 6 = 18$

D. $3 \times 9 = 27$

11) What is 4×50 ?

12) If you want to measure the area of a wall, which is the best unit to use?

A. Inches (like the perimeter)

C. Feet (the height or length)

B. Square feet (space covered)

D. Miles (for large distances)

13) What is 899 rounded to the nearest 10?

A. 890

C. 900

B. 899

D. 910

14) The school day starts at 8 : 30 AM and ends at 3 : 15 PM. How long is the school day?

A. 6 hours 30 minutes

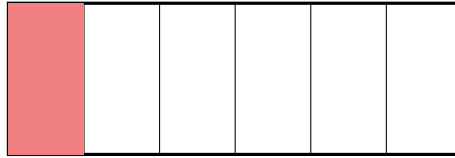
C. 7 hours

B. 6 hours 45 minutes

D. 7 hours 15 minutes



- 1) Look at the rectangle below. It is divided into 6 equal parts, and one part is shaded.



What fraction is shaded?

- A. $\frac{5}{6}$ C. $\frac{6}{1}$
 B. $\frac{1}{6}$ D. $\frac{1}{5}$
- 2) Sam earned 36 points in 6 games. If he earned the same number of points in each game, how many points did he earn per game?
- A. 5 points C. 7 points
 B. 8 points D. 6 points
- 3) Use the place-value chart. What is 6×10 ?

Tens	Ones
6	0

- A. 16 C. 610
 B. 60 D. 601
- 4) Which fraction is NOT equivalent to $\frac{2}{4}$?
- A. $\frac{1}{2}$ C. $\frac{4}{8}$
 B. $\frac{3}{6}$ D. $\frac{2}{3}$



5) Two cakes are the same size. Cake A is cut into 2 slices with 1 eaten. Cake B is cut into 6 slices with 3 eaten. How much cake is left?

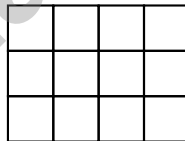
- A. The same amount is left. C. Cake B has more left.
 B. Cake A has more left. D. Cannot compare.

6) Write the whole number 4 as a fraction with denominator 1.

7) A square rug has side length 5 meters. What is its area?

- A. 10 sq m C. 25 sq m
 B. 20 sq m D. 30 sq m

8) Look at this rectangle covered exactly by unit squares:



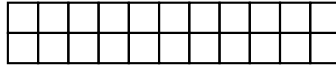
Count the unit squares. What is the area?

- A. 7 sq units C. 14 sq units
 B. 12 sq units D. 24 sq units



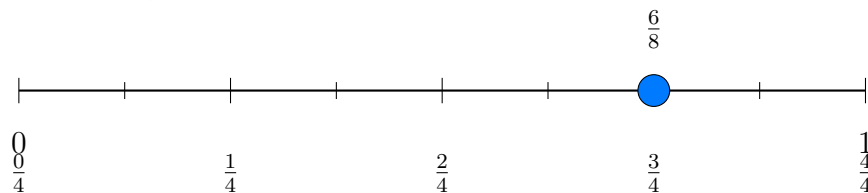
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1) Here is a long thin rectangle made of unit squares:



Count the unit squares. What is the area?

- A. 11 sq units (just one row) C. 22 sq units
 B. 13 sq units D. 44 sq units
- 2) What is $542 - 218$?
- A. 334 C. 314
 B. 422 D. 324
- 3) Eli paints a rectangular wall. The wall is 8 feet wide and 3 feet tall. How many square feet does Eli paint?
- A. 24 sq ft C. 11 sq ft
 B. 16 sq ft D. 32 sq ft
- 4) A sheet of paper is folded to make 2 equal halves. What unit fraction is one half?
- A. $\frac{1}{3}$ C. $\frac{1}{2}$
 B. $\frac{2}{1}$ D. $\frac{1}{1}$
- 5) Look at the number line. Which fraction equals $\frac{3}{4}$?



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



6) There are 45 pencils. They are shared equally among 9 students. How many pencils does each student get?

A. 4

C. 6

B. 7

D. 5

7) An L-shaped patio is shown with parts having areas 32 sq units and 15 sq units. What is the total?

A. 17 sq units

C. 64 sq units

B. 47 sq units

D. 480 sq units

8) How many odd numbers are in the pattern 4, 8, 12, 16, 20, 24, 28? Explain why.

9) Ava cut a pie into 3 equal pieces and ate 2 pieces. Lily cut her pie into 6 equal pieces and ate 4 pieces. Did they eat the same amount?

A. Yes, they ate the same amount

C. No, Lily ate more

B. No, Ava ate more

D. Cannot be determined

10) At what time does the hour hand and minute hand point straight up on a clock?

A. 3 : 00

C. 9 : 00

B. 6 : 00

D. 12 : 00



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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 turns every missed item into useful practice.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** **(3.NF.A.3a)** $\frac{4}{6} = \frac{2}{3}$ because both represent two-thirds of the poster.
- 2) **Choice A is correct.** **(3.NF.A.2)** The dot is at the first tick out of six equal parts, so it represents $\frac{1}{6}$.
- 3) **Choice B is correct.** **(3.MD.B.4)** At $2\frac{1}{4}$ feet there are 2 X's. At $2\frac{3}{4}$ feet there are also 2 X's.
- 4) **Choice A is correct.** **(3.G.A.1)** Not all rectangles have equal sides. Only squares have all 4 sides equal. All rectangles do have 4 sides, 4 right angles, and opposite sides equal.
- 5) **Choice C is correct.** **(3.NF.A.3d)** Strategy: same numerator (2), so compare denominators. Thirds are bigger pieces than fourths (a whole divided by 3 gives bigger parts than divided by 4). Visual check: the blue bar ($\frac{2}{3}$) covers more area than the bar would if it were $\frac{2}{4}$. Rule: when numerators match, smaller denominator wins.
- 6) **Choice D is correct.** **(3.MD.C.5a)** The grid is 5 units wide and 3 units tall: $5 \times 3 = 15$ unit squares.
- 7) **Choice B is correct.** **(3.MD.C.5b)** $7 \times 5 = 35$ square units.
- 8) **The correct answer is 72 square units.** **(3.MD.C.7c)** $2 + 6 = 8$, and $9 \times 8 = 72$ square units.
- 9) **Choice A is correct.** **(3.OA.D.8)** Step 1: Subtract for necklace: $100 - 25 = 75$ beads. Step 2: Divide into bracelets: $75 \div 5 = 15$ beads per bracelet. (Choice D is step 1 only.)
- 10) **Choice A is correct.** **(3.OA.B.6)** $21 \div 3 = \square$ asks: $\square \times 3 = 21$. Since $7 \times 3 = 21$, the answer is 7.
- 11) **The correct answer is 200.** **(3.NBT.A.3)** Multiply $4 \times 5 = 20$, then add one zero: $4 \times 50 = 200$.
- 12) **Choice B is correct.** **(3.MD.C.5)** Area must be measured in square units because it describes 2D space. Square feet, square inches, square meters, and square centimeters are all correct area units.
- 13) **Choice C is correct.** **(3.NBT.A.1)** The ones digit is 9. Since $9 \geq 5$, round up: 899 rounds to 900.
- 14) **Choice B is correct.** **(3.MD.A.1)** From 8:30 AM to 3:30 PM is 7 hours. School ends 15 minutes earlier, so the day is 6 hours 45 minutes.
- 15) **Choices A and B are correct.** **(3.NF.A.3c)** $\frac{4}{2}$ has 4 halves = 2 wholes. $\frac{6}{3}$ has 6 thirds = 2 wholes. Choice C equals 1, and choices D and E do not equal 2.
- 16) **Choice D is correct.** **(3.OA.D.9)** Odd numbers increase by 2 each time. $21 + 2 = 23$.
- 17) **Choice B is correct.** **(3.MD.A.2)** Subtract the milk already in the cup: $900 - 600 = 300$ mL needed.
- 18) **Choice B is correct.** **(3.MD.C.7d)** Top: $4 \times 2 = 8$ sq m. Bottom left: $2 \times 3 = 6$ sq m. Bottom right: $2 \times 3 = 6$ sq m. Total: $8 + 6 + 6 = 20$ sq m.
- 19) **Choice D is correct.** **(3.OA.A.1)** Counting by ones from 0 to 10 does not show equal groups or repeated addition. Multiplication requires equal groups or arrays, like choices A, C, and D.
- 20) **Choice C is correct.** **(3.MD.C.7)** The grid has 6 columns and 4 rows. Area = $6 \times 4 = 24$ square cm. You can also count: $6 + 6 + 6 + 6 = 24$ (four rows of six).
- 21) **Choice B is correct.** **(3.NF.A.3b)** Pie 1 shows $\frac{1}{2}$ (half shaded) and Pie 3 shows $\frac{2}{4}$ (half shaded). Both represent the same amount: $\frac{1 \times 2}{2 \times 2} = \frac{2}{4}$.
- 22) **Choice A is correct.** **(3.OA.A.2)** The number line shows 5 jumps of -2 from 10 to 0. This represents $10 \div 2 = 5$ (there are 5 groups of 2 in 10).
- 23) **Choice B is correct.** **(3.NF.A.2a)** The denominator 4 tells us exactly 4 parts of size $\frac{1}{4}$ fit from 0 to 1.
- 24) **Choice D is correct.** **(3.OA.A.3)** Multiply: 6 rows \times 5 columns = 30 squares.
- 25) **Choice A is correct.** **(3.OA.A.4)** The fact family for 4, 9, and 36 has equations like $4 \times 9 = 36$ and $36 \div 9 = 4$. The equation $36 \div 6 = 6$ uses 6, not 4 or 9.
- 26) **Choice D is correct.** **(3.NBT.A.2)** Subtract: $456 - 132 = 324$. Ones: $6 - 2 = 4$. Tens: $5 - 3 = 2$. Hundreds: $4 - 1 = 3$.
- 27) **The correct answer is 4 parts.** **(3.G.A.2)** Half of 8 is 4.
- 28) **Choice B is correct.** **(3.NF.A.2b)** Four hops of size $\frac{1}{3} = 4 \times \frac{1}{3} = \frac{4}{3} = 1\frac{1}{3}$. The frog lands between 1 and 2.
- 29) **Choice D is correct.** **(3.OA.B.5)** $3 \times 5 = 15$ and $3 \times 3 = 9$, so $15 + 9 = 24$. The distributive property shows $3 \times (5 + 3) = 24$.



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Hi, Math Family Member,

◇ Welcome to a special note from your math family. You finished 7 full practice tests, and that hard work matters more than any score. We see you. We are proud of you. ◇

★ **Our math family knows:** math is a journey. You have taken many steps already. The test is just one stop. Every skill you built is yours forever. ★

What Your Math Family Sees

- **Hard Work:** You keep showing up.
- **Real Growth:** You can do problems today you couldn't before.
- **Brave Heart:** You face hard problems with brave thinking.
- **Bright Future:** Your math journey is just beginning.

Family tip: on test day, picture us standing behind you, smiling and rooting for you. You are not alone. Your math family is with you!

If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Math Family

PRACTICE TODAY. MASTER TOMORROW.

This book is designed to help **Grade 3** students strengthen their math skills through focused practice and real progress.

- ✓ 7 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success
- ✓ Review, answer keys, and explanations



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Questions



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Question
Types



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