

3

South Dakota

Smarter Balanced

GRADE 3 MATH PRACTICE TESTS

Standards-Aligned
Practice for Stronger
Math Skills and
Test Readiness



Build Confidence
with Targeted Practice



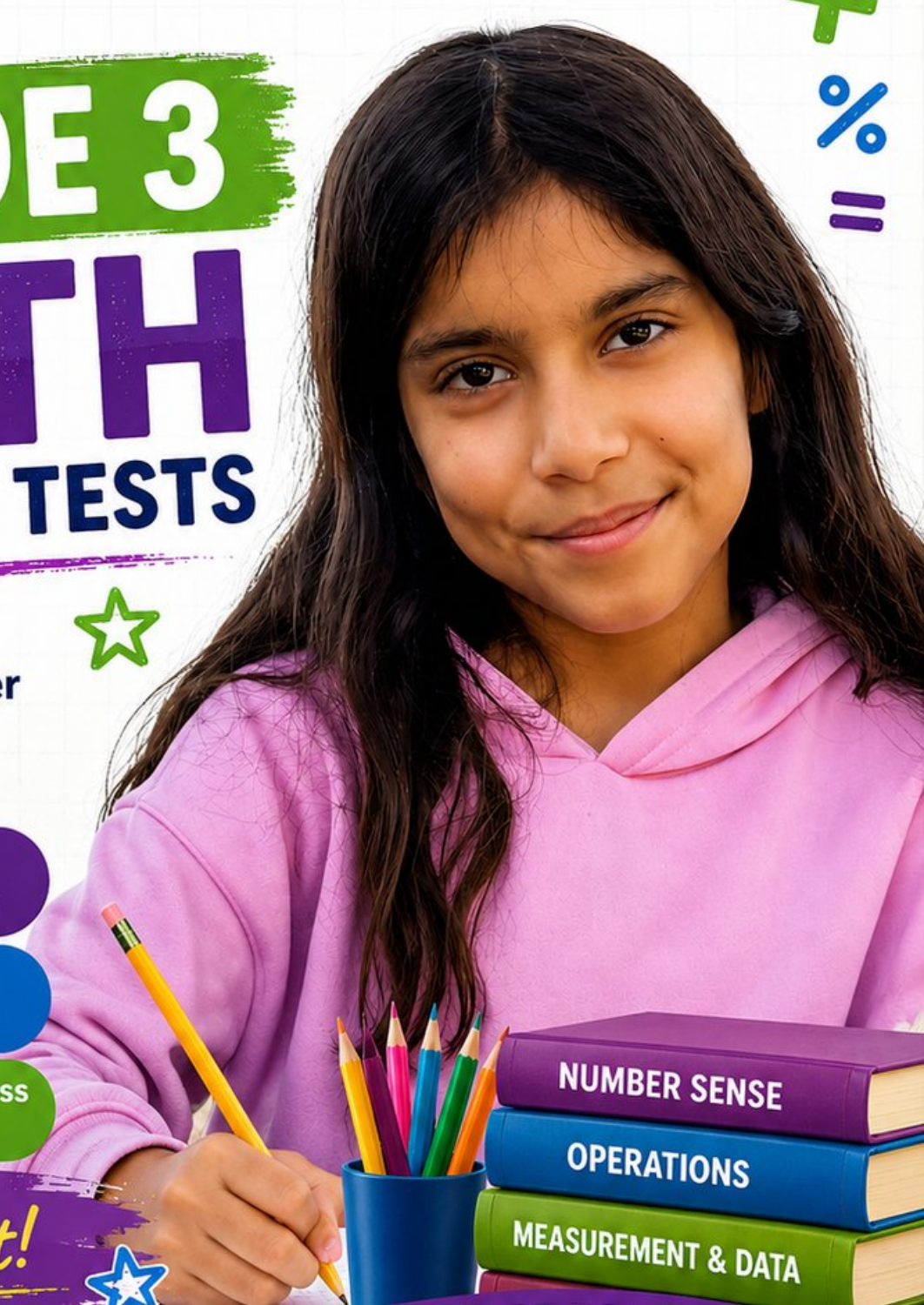
Strengthen Skills
in Key Math Concepts



Improve Test Readiness
with Realistic Practice

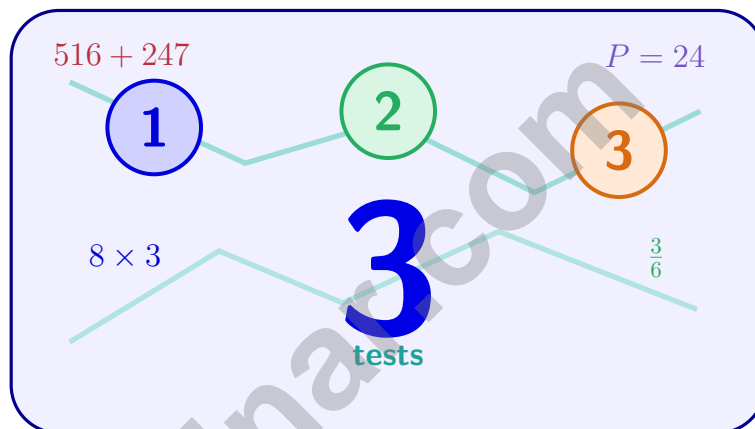


Be Ready.
Do Your Best!



3 South Dakota 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, South Dakota 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 South Dakota 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 South Dakota 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

| | |
|---------------|---|
| Week 1 | Hike Test 1. Map what feels strong and what needs a second look. |
| Week 2 | Hike Test 2. Sharpen the habits: read slow, sketch the model, label every number. |
| Week 3 | 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 South Dakota 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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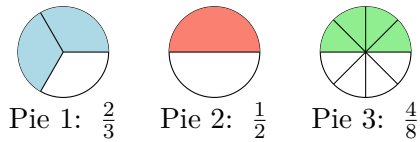
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1) Round 95 to the nearest 10. (Hint: This is a rollover case where the tens digit becomes 0.)

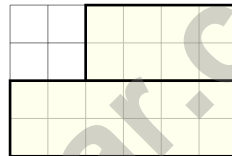
- A. 90 C. 100
 B. 95 D. 110

2) Which two pie charts show equivalent fractions?



- A. Pies 1 and 2 C. Pies 1 and 3
 B. Pies 2 and 3 D. All three pies

3) This grid shows a step-shaped figure made of unit squares. Count by breaking it into parts.



How many unit squares cover this step shape?

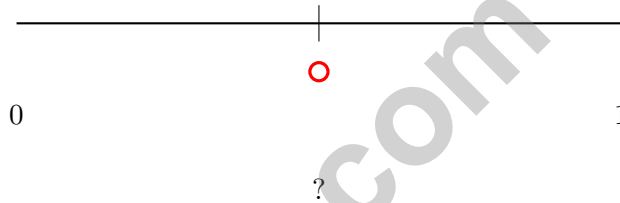
- A. 12 sq units C. 20 sq units
 B. 16 sq units D. 24 sq units
- 4) A rectangle's length is 12 cm. Its width is 3 cm. What is the perimeter?
- A. 15 cm C. 30 cm
 B. 36 cm D. 72 cm



5) The bar is completely shaded. It shows $\frac{5}{5}$. Write the whole number this equals.



6) Identify the fraction at the marked point on this number line from 0 to 1 divided into 2 equal parts.

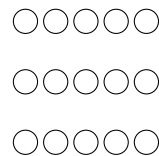


- | | |
|---|---|
| <input type="checkbox"/> A. $\frac{1}{2}$ | <input type="checkbox"/> C. $\frac{1}{4}$ |
| <input type="checkbox"/> B. $\frac{1}{3}$ | <input type="checkbox"/> D. $\frac{2}{3}$ |

7) Lily starts a project at 7 : 29 AM. She works for 1 hour and 16 minutes. What time does she finish?

- | | |
|---------------------------------------|---------------------------------------|
| <input type="checkbox"/> A. 8 : 35 AM | <input type="checkbox"/> C. 8 : 45 AM |
| <input type="checkbox"/> B. 8 : 40 AM | <input type="checkbox"/> D. 9 : 00 AM |

8) Look at the picture. It shows 3 equal groups of circles.

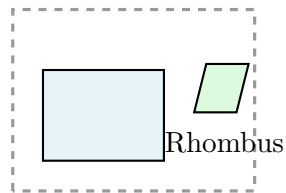


Which equation matches this picture?

- | | |
|--|--|
| <input type="checkbox"/> A. $5 \times 4 = \square$ | <input type="checkbox"/> C. $5 + 3 = \square$ |
| <input type="checkbox"/> B. $15 \div 4 = \square$ | <input type="checkbox"/> D. $3 \times 5 = \square$ |



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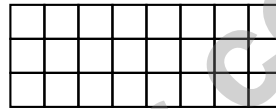
Rectangle

1)

Two shapes are shown. Which property do they share?

- A. Both have right angles C. Both have equal sides
 B. Both have 4 sides D. Both are squares

2) A teacher covers a classroom floor with square tiles. The floor is a rectangle that is 8 tiles long and 3 tiles wide. Here is a diagram:

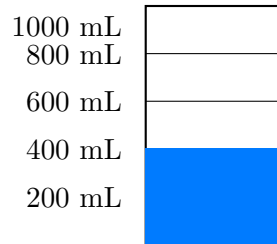


Count the square tiles. How many tiles are needed to cover the entire floor?

- A. 11 tiles (only the edge) C. 24 tiles
 B. 22 tiles (counted twice) D. 40 tiles

3) Noah thinks of a number. He multiplies it by 5. The result is 45. Which equation shows what Noah did?

- A. $\square \times 5 = 45$ C. $5 + \square = 45$
 B. $45 \div 5 = \square$ D. $\square - 5 = 45$



Water in Pitcher

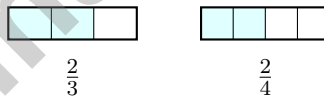
4)

The pitcher shows 400 mL of water. Ben adds 600 mL more. How much water is in the pitcher now?

- A. 600 mL
- B. 800 mL
- C. 1000 mL
- D. 1200 mL

5) Noah splits a number line from 0 to 1 into 2 equal parts. Then he splits each part in half again. How many equal parts are there now?

- A. 2
- B. 3
- C. 4
- D. 8



6)

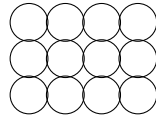
Compare $\frac{2}{3}$ and $\frac{2}{4}$. Which is true?

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



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1)



This array shows 3 rows of 4 circles each. What is 3×4 ?

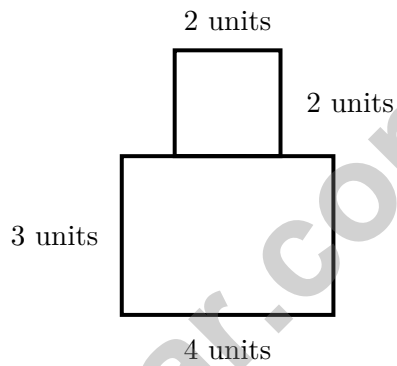
A. 7

C. 10

B. 15

D. 12

2) A composite figure shows:



What is the total area?

A. 12 sq units

C. 16 sq units

B. 4 sq units

D. 18 sq units



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

- Choice C is correct.** **(3.NBT.1)** The ones digit is 5. Since $5 \geq 5$, round up: 95 rounds to 100 (rollover case).
- Choice B is correct.** **(3.NF.3)** Pie 2 shows $\frac{1}{2}$ (half shaded) and Pie 3 shows $\frac{4}{8}$ (half shaded). These are equivalent because $\frac{1 \times 4}{2 \times 4} = \frac{4}{8}$.
- Choice C is correct.** **(3.MD.6)** Count bottom part: $6 \times 2 = 12$ squares. Count top-right part: $4 \times 2 = 8$ squares. Total: $12 + 8 = 20$ unit squares.
- Choice C is correct.** **(3.MD.8)** $P = 2(12) + 2(3) = 24 + 6 = 30$ cm.
- The correct answer is 1.** **(3.G.2)** When numerator = denominator, the fraction equals 1 whole. $\frac{5}{5} = 1$.
- Choice A is correct.** **(3.NF.1)** The first and only tick mark on a line divided into 2 parts is at $\frac{1}{2}$.
- Choice C is correct.** **(3.MD.1)** $7 : 29 + 1$ hour = $8 : 29$. Then $8 : 29 + 16$ min = $8 : 45$ AM.
- Choice D is correct.** **(3.OA.4)** The picture shows 3 groups with 5 circles in each group, so the matching equation is $3 \times 5 = \square$.
- Choice A is correct.** **(3.MD.4)** The value with the most X's is the mode. At 2 inches, there are 3 X's. This is more than any other value.
- Choice C is correct.** **(3.MD.3)** Count: 5 squares in the picture graph. Multiply by scale: $5 \times 2 = 10$ stickers.
- Choice C is correct.** **(3.NBT.3)** The area model shows 4 groups of (6×10) . Adding: $60 + 60 + 60 + 60 = 240$. Or: $(4 \times 6) \times 10 = 24 \times 10 = 240$.
- Choice A is correct.** **(3.NBT.2)** Subtract to find the missing addend: $650 - 367 = 283$. Check: $367 + 283 = 650$.
- Choice B is correct.** **(3.MD.5)** Multiply length by width: $8 \times 3 = 24$ tiles.
- Choice C is correct.** **(3.NF.3)** $\frac{1}{3}$ and $\frac{2}{6}$ both equal one-third of a whole.
- The correct answer is 6.** **(3.OA.3)** $30 \div 5 = 6$.
- Choices B and C are correct.** **(3.MD.8)** Area of a rectangle = length \times width = $8 \times 5 = 40$ square feet. Choice E is false because 8×5 equals 40, not 45. Perimeter is found by adding all four sides.
- Choice A is correct.** **(3.NF.2)** Four hops of $\frac{1}{4}$ each = $4 \times \frac{1}{4} = 1$. The frog lands at 1.
- Choice C is correct.** **(3.NBT.2)** $7 \times 10 = 70$, then $70 - 7 = 63$. The mental-math strategy helps break hard facts into easier ones.
- Choice C is correct.** **(3.G.2)** Two shaded parts out of four equal parts is $\frac{2}{4}$, which equals $\frac{1}{2}$.
- Choice D is correct.** **(3.OA.6)** The missing factor is 9 because $9 \times 7 = 63$. This is the same as saying $63 \div 7 = 9$.
- Choice C is correct.** **(3.MD.9)** $3 \times (5 + 4) = 3 \times 9 = 27$ or $(3 \times 5) + (3 \times 4) = 15 + 12 = 27$.
- Choice B is correct.** **(3.MD.7)** With length 5 and width 4, you add the width 4 five times: $4 + 4 + 4 + 4 + 4 = 20$. This equals $5 \times 4 = 20$ square units.
- Choice B is correct.** **(3.NF.1)** Sam eats $\frac{1}{4}$ and Mia eats $\frac{1}{4}$. Together: $\frac{1}{4} + \frac{1}{4} = \frac{2}{4}$ is eaten, so $\frac{2}{4}$ remains.
- Choice C is correct.** **(3.MD.2)** 1 L = 1000 mL. Subtract: $1000 - 750 = 250$ mL.
- Choice C is correct.** **(3.MD.8)** $7 \times 5 = 35$ square units.
- Choice D is correct.** **(3.OA.9)** $3 \times 1 = 3$, $3 \times 2 = 6$, $3 \times 3 = 9$, etc. The difference between consecutive products is always 3.
- Choice B is correct.** **(3.NF.3)** CRITICAL: Fraction comparisons are ONLY valid when both fractions describe the same-size whole. Since pizza B is bigger than pizza A, $\frac{1}{4}$ of the smaller pizza may actually be bigger than $\frac{1}{6}$ of the larger pizza. We cannot compare them. Standard 3.NF.A.3.d requires recognizing that comparisons are valid only when the two fractions refer to the same whole.
- The correct answer is 6.** **(3.NF.2)** The denominator doubles, so the numerator doubles: $3 \times 2 = 6$.
- Choice D is correct.** **(3.OA.2)** Measurement division: $36 \div 6 = 6$. There are 6 groups of 6 stickers.
- Choice B is correct.** **(3.MD.5)** Bottom: $7 \times 3 = 21$ sq ft. Top: $3 \times 2 = 6$ sq ft. Total: $21 + 6 = 27$ sq ft.

Hi, Math Athlete!

◇ 3 practice tests done! That's serious training. Your math muscles are strong. You are in great shape for the big test. ◇

★ **Trainers know:** muscle memory is real. The more you practice, the more your brain knows what to do without thinking. You built that muscle memory! ★

Athlete Performance

- **Endurance:** TOP! You can finish a long test.
- **Strength:** STRONG! You handle hard problems.
- **Speed:** JUST RIGHT! You don't rush.
- **Recovery:** GOOD! You bounce back from tough questions.

Trainer tip: on test day, drink water, breathe deeply, and warm up with the easier questions first. Your training will carry you the rest of the way!

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

Jay Daie

Your Math Trainer

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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