

7

South Dakota

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



$$\begin{array}{r} 248 \\ + 157 \\ \hline 405 \end{array}$$



$$4 \times 6 = 24$$



7 South Dakota 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 South Dakota Smarter Balanced. Each trail is a full 30-question test, so students can practice accuracy, stamina, and clear explanations over time.

South Dakota has prairie grass, Black Hills trails, river bluffs, starry nights, and calm classroom work, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and work patiently through each checkpoint.

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 South Dakota students, each trail moves through prairie grass, Black Hills trails, river bluffs, starry nights, and calm classroom work: 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 South Dakota 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 South Dakota Smarter Balanced path.



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- 1) A baker has 42 cookies to pack equally into 6 bags. After packing 2 bags, how many cookies are left in the remaining bags? Let c represent the cookies in the remaining bags. Which equation shows the correct steps?

- A. $c = 42 \div 6 \times 4$
 C. $c = 42 - 2 \times 6$
 B. $c = (42 \div 6) \times (6 - 2)$
 D. $c = 6 \times 2 - 42$

- 2) A square tile has sides of 6 centimeters. How many unit squares cover the tile? Explain how you counted: did you count by rows or skip-count?

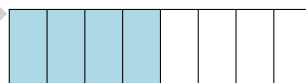
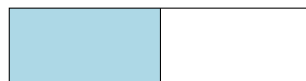


3)



Which number comes next?

- A. 11
 C. 14
 B. 16
 D. 12
- 4) Two identical rectangles are divided into parts. Rectangle 1 shows $\frac{4}{8}$ shaded blue. Rectangle 2 shows $\frac{1}{2}$ shaded blue. Are the blue regions the same size?

Rectangle 1: $\frac{4}{8}$ Rectangle 2: $\frac{1}{2}$

- A. Rectangle 1 is larger.
 C. They are the same size.
 B. Rectangle 2 is larger.
 D. The rectangles are not identical.



- 5) A unit square can be measured in different units. A unit square measured in inches is how many square inches?
- A. 1 square inch C. 4 square inches
 B. 2 square inches D. 0.5 square inches
- 6) A T-shaped figure is divided by dashed lines into three rectangles. The given areas are 10 sq units, 6 sq units, and 6 sq units. What is the total area?
- A. 10 sq units C. 16 sq units
 B. 22 sq units D. 360 sq units
- 7) If you know $4 \times 9 = 36$, which division fact can you write?
- A. $36 \div 4 = 8$ C. $36 \div 6 = 6$
 B. $45 \div 9 = 5$ D. $36 \div 9 = 4$
- 8) Which shape has opposite sides that are parallel and equal in length?
- A. Triangle C. Pentagon
 B. Trapezoid D. Parallelogram
- 9) A tiling splits a rectangle into $2 \times (9 + 1)$. What is the total area of both smaller rectangles?
- A. 11 C. 20
 B. 18 D. 10
- 10) Eli has $\frac{8}{2}$ sheets of stickers. Each sheet is one whole. How many whole sheets does he have?
- A. 2 C. 8
 B. 4 D. 6



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11) Which is NOT equivalent to $\frac{1}{2}$?

- A. $\frac{2}{4}$
 B. $\frac{3}{6}$

- C. $\frac{2}{6}$
 D. $\frac{4}{8}$

12) Mia weighs three items on a scale:

Item	Mass
Apple	200 g
Orange	150 g
Banana	120 g

Which item has the greatest mass?

- A. Apple
 B. Orange

- C. Banana
 D. All the same

13) What is $486 + 237$?

- A. 613
 B. 713

- C. 723
 D. 624

14) The theater has 8 rows of seats. Each row has 30 seats. How many seats are in the theater?

- A. 38
 B. 83

- C. 240
 D. 2400



1) Lily has 2 equal pieces of a sandwich. She eats 1 piece. What fraction did she eat?

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

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

2) A rectangle has 5 rows of unit squares and 2 columns of unit squares. What is the area?

- A. 7
 B. 10

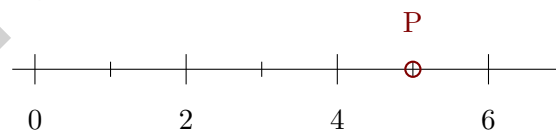
- C. 14
 D. 52

3) 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

4) A rectangular bookmark has length 9 cm and width 2 cm. Find the area of the bookmark.



5)

The number line from 0 to 6 is divided into 6 equal parts. Point P is shown. What fraction of the distance from 0 to 6 is point P ?

- A. $\frac{4}{6}$
 B. $\frac{6}{5}$

- C. $\frac{1}{6}$
 D. $\frac{5}{6}$



6) Lily has a square tablecloth with sides of 8 units each. What is the area of the tablecloth?

- A. 32 sq units C. 16 sq units
 B. 48 sq units D. 64 sq units

7) Ava colored $\frac{4}{4}$ of a shape. Noah colored $\frac{4}{6}$ of a shape of the same size. Which statement is true?

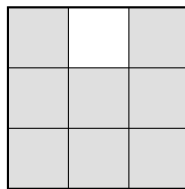
- A. Ava colored more C. They colored the same amount
 B. Noah colored more D. Cannot compare the fractions

8) Which number sentence matches “How many groups of 4 are in 16?”

- A. $4 + 16$ C. 4×16
 B. $16 - 4$ D. $16 \div 4$

9) Find 8×6 .

10) Eli sees a checkerboard with a 3×3 pattern of unit squares. How many unit squares are on the board?

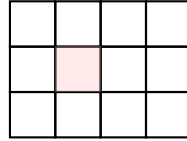


- A. 6 unit squares C. 9 unit squares
 B. 8 unit squares D. 12 unit squares



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- 1) Look at this shape made of unit squares. One square is shaded pink to help you see it:

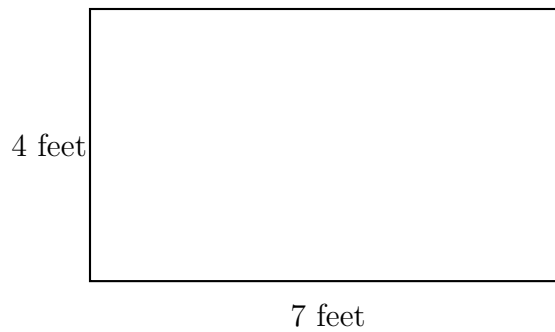


How many distinct unit squares cover the shape?

- A. 11 unit squares C. 13 unit squares
 B. 12 unit squares D. 24 unit squares
- 2) A number line from 0 to 1 shows a unit fraction of $\frac{1}{4}$. How many of these unit fractions fit from 0 to 1?
- A. 1 C. 3
 B. 2 D. 4
- 3) Which list shows the multiples of 4 from 1 to 20?
- A. 1, 5, 9, 13, 17 C. 2, 6, 10, 14, 18
 B. 3, 7, 11, 15, 19 D. 4, 8, 12, 16, 20
- 4) Noah has 16 pencils. He puts them into 4 boxes equally. Which division equation shows this?
- A. $4 \times 4 = 16$ C. $16 - 4 = 12$
 B. $16 + 4 = 20$ D. $16 \div 4 = 4$



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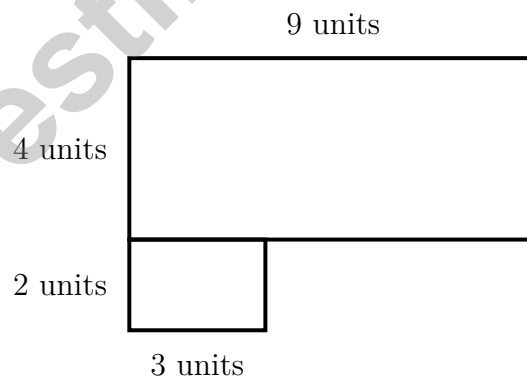


5)

Find the area of the rectangle above.

 A. 22 sq ft B. 32 sq ft C. 14 sq ft D. 28 sq ft6) Noah knows that $7 \times 2 = 14$. What is 2×7 ? A. 9 B. 12 C. 16 D. 14

7) Eli has an L-shaped rug. The longer side is 9 units by 4 units. The shorter side is 3 units by 2 units. What is the total area of the rug?

 A. 36 sq units B. 6 sq units C. 42 sq units D. 216 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 turns every missed item into useful practice.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** **(3.OA.8)** Step 1: Cookies per bag: $42 \div 6 = 7$ cookies. Step 2: Remaining bags: $6 - 2 = 4$ bags. Total in remaining: $7 \times 4 = 28$ cookies. Choice B is clearest with parentheses.
- 2) **The correct answer is 36 sq cm.** **(3.MD.6)** Since it's a square, both rows and columns equal 6. Students should show repeated addition.
- 3) **Choice D is correct.** **(3.OA.9)** The pattern is 2, 4, 6, 8, 10, 12. Add 2 each time.
- 4) **Choice C is correct.** **(3.NF.2)** $\frac{4}{8} = \frac{1}{2}$. Both represent one-half of their rectangles.
- 5) **Choice A is correct.** **(3.MD.6)** A unit square has side length 1 unit. If measured in inches, that is 1 in \times 1 in = 1 square inch.
- 6) **Choice B is correct.** **(3.MD.5)** Add all three parts: $10 + 6 + 6 = 22$ square units.
- 7) **Choice D is correct.** **(3.NBT.2)** If $4 \times 9 = 36$, then $36 \div 9 = 4$. Multiplication and division are inverse operations.
- 8) **Choice D is correct.** **(3.G.1)** A parallelogram has two pairs of opposite sides that are both parallel and equal in length. Rectangles and rhombuses are special parallelograms.
- 9) **Choice C is correct.** **(3.MD.9)** $2 \times (9 + 1) = 2 \times 10 = 20$ or $(2 \times 9) + (2 \times 1) = 18 + 2 = 20$.
- 10) **Choice B is correct.** **(3.G.2)** $\frac{8}{2}$ means 8 halves. 2 halves make 1 whole, so $8 \div 2 = 4$ wholes.
- 11) **Choice C is correct.** **(3.NF.3)** $\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8}$. But $\frac{2}{6}$ simplifies to $\frac{1}{3}$, not $\frac{1}{2}$.
- 12) **Choice A is correct.** **(3.MD.2)** 200 g is the largest mass.
- 13) **Choice C is correct.** **(3.NBT.2)** Add the ones ($6 + 7 = 13$, write 3, carry 1), tens ($8 + 3 + 1 = 12$, write 2, carry 1), hundreds ($4 + 2 + 1 = 7$). Answer: 723.
- 14) **Choice C is correct.** **(3.NBT.3)** 8 rows of 30 seats = $8 \times 30 = 240$ seats. Multiply $8 \times 3 = 24$, then add one zero.
- 15) **Choices A and C are correct.** **(3.OA.3)** Choices A and C involve finding a total from equal groups. B, D, and E involve subtraction or addition of separate quantities.
- 16) **Choice D is correct.** **(3.OA.4)** Divide: $63 \div 7 = 9$ weeks. Check: $9 \times 7 = 63$.
- 17) **Choice D is correct.** **(3.MD.1)** $7 : 33 + 3$ hours = $10 : 33$. Then $10 : 33 + 17$ min = $10 : 50$ AM.
- 18) **The correct answer is 26 centimeters.** **(3.MD.8)** $2(9) + 2(4) = 18 + 8 = 26$ centimeters.
- 19) **Choice B is correct.** **(3.NF.2)** On a number line from 0 to 2, the middle tick mark is at 1, which is halfway between 0 and 2.
- 20) **Choice A is correct.** **(3.MD.5)** You can count the squares directly by pointing at each one (16 total). You can also multiply: $4 \times 4 = 16$. Counting and multiplying are both valid ways to find area.
- 21) **Choice D is correct.** **(3.OA.2)** $12 \div 4 = 3$. The picture shows 4 equal groups, each with 3 items.
- 22) **Choice D is correct.** **(3.OA.1)** 3 friends with 8 stickers each means 3 groups of 8. So $3 \times 8 = 24$ stickers in all.
- 23) **Choice B is correct.** **(3.MD.7)** Adding the width 4 five times: $4 + 4 + 4 + 4 + 4 = 20$. This is the same as $5 \times 4 = 20$ square units.
- 24) **Choice A is correct.** **(3.NBT.1)** The ones digit is 2. Since $2 < 5$, round down: 472 rounds to 470.
- 25) **The correct answer is 35 sq cm.** **(3.MD.8)** Area = length \times width, so $7 \times 5 = 35$ square centimeters.
- 26) **Choice C is correct.** **(3.MD.4)** At $3\frac{1}{2}$ inches, there are 4 X's.
- 27) **Choice A is correct.** **(3.NF.3)** Three thirds is one whole. Three eighths is less than one whole. So $\frac{3}{3} > \frac{3}{8}$.
- 28) **Choice B is correct.** **(3.OA.6)** The missing factor is 3 because $3 \times 6 = 18$. This is the same as $18 \div 6 = 3$. We find the unknown factor by thinking about division. Option A ($2 \times 6 = 12$) is too small. Option D confuses the known factor with the answer.
- 29) **Choice C is correct.** **(3.MD.3)** Apples: $2 \times 10 = 20$. Oranges: $3 \times 10 = 30$. Total: $20 + 30 = 50$.
- 30) **Choice A is correct.** **(3.NF.1)** The first of four equal parts is $\frac{1}{4}$.

Practice Test 2 Answers and Explanations



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From a Friend Who Believes in You

Hi, Friend!

◇ I just want to say something important: I am proud of you. You did 7 full practice tests. That takes time, hard work, and heart. ◇

★ **Friendly truth:** a test is just one part of your math journey. You are SO much more than a score. The work you did is the real win! ★

What I Want You to Know

- **You are smart.** Every test you finished proves it.
- **You are brave.** You tried hard problems.
- **You are growing.** Mistakes taught you new things.
- **You are ready.** The skills are inside you.

One more thing: on test day, take a deep breath. Smile. Remember that someone (me!) believes in you. You can do this!

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

Jay Daie

Your Math Friend

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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



EACH PRACTICE TEST INCLUDES:



Standards-
Aligned
Questions



Variety of
Question
Types



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Math
Applications



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Progress
Tracking



Build Skills
and Boost
Confidence

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