

# 6

# South Dakota

# Smarter Balanced

## GRADE 4 MATH PRACTICE TESTS

Standards-Aligned Review with  
Mixed Practice and Answer Key



**MASTER KEY MATH CONCEPTS**  
**BUILD CONFIDENCE FOR TEST DAY**

**INCLUDES COMPREHENSIVE ANSWER KEY**  
**ALIGNED STATE STANDARDS**

# 6 South Dakota Smarter Balanced Grade 4 Math Practice Tests

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



Six complete 30-question Grade 4 practice rounds for Smarter Balanced, built around prairie monuments, open roads, and patient problem solving, with answer keys and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome, South Dakota Math Explorer!

Six steady rounds on the Mount Rushmore State math route

This book gives you six full Grade 4 practice tests for Smarter Balanced. Each round uses prairie monuments, open roads, and patient problem solving to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

## South Dakota 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 South Dakota 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 Mount Rushmore 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?

Six tests, 180 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 4–6	Stamina rounds for mixed review, neat work, and flexible strategies.
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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For more practice  
& answers

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1) A ribbon is 0.75 meters long. Which fraction is equivalent to this length?

- A.  $\frac{7}{10}$   
 B.  $\frac{75}{100}$

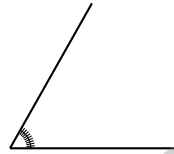
- C.  $\frac{75}{10}$   
 D.  $\frac{750}{100}$

2) Which expression equals  $\frac{7}{10}$ ?

- A.  $3 \times \frac{1}{10}$   
 B.  $7 \times \frac{1}{10}$

- C.  $10 \times \frac{1}{7}$   
 D.  $\frac{1}{7} \times \frac{1}{10}$

3)

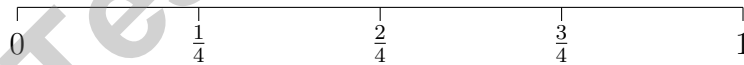


The angle spans  $60^\circ$ . How many one-degree angles make this angle?

- A.  $60^\circ$   
 B. 30 one-degree angles

- C. 60 one-degree angles  
 D. 120 one-degree angles

4) A number line has 4 equal parts from 0 to 1. Which fraction represents 3 of those parts?

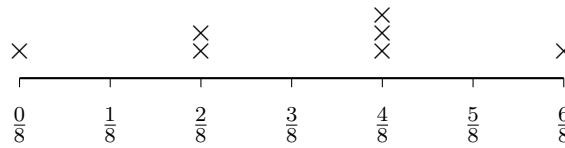


- A.  $\frac{4}{4}$   
 B.  $\frac{2}{4}$

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



5) Here is a line plot with measurements in eighths:



What fraction represents the difference between the longest and shortest measurements?

- A.  $\frac{2}{8}$
- B.  $\frac{4}{8}$
- C.  $\frac{5}{8}$
- D.  $\frac{6}{8}$

6) What is  $4\frac{1}{4} + 1\frac{2}{4}$ ?

- A.  $5\frac{1}{4}$
- B.  $5\frac{2}{4}$
- C.  $5\frac{3}{4}$
- D.  $6\frac{1}{4}$

7) Find  $\frac{5}{6} + \frac{1}{6}$ .

8) A single jump rope segment is  $\frac{2}{4}$  yard long. How long are 5 segments?

- A.  $\frac{5}{4}$  yards (or  $1\frac{1}{4}$  yards)
- B.  $\frac{10}{4}$  yards (or  $2\frac{1}{2}$  yards)
- C.  $\frac{10}{20}$  yard
- D.  $\frac{2}{20}$  yard



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9) A recipe calls for 8 cups of flour. If the baker wants to make 4 batches, how many cups of flour are needed?

A. 12 cups

B. 24 cups

C. 32 cups

D. 36 cups

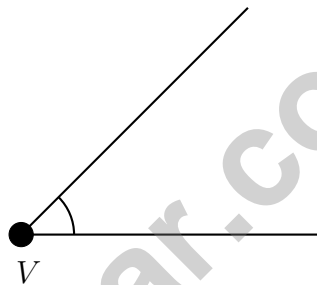
10) A baker divides 540 cookies equally among 6 friends. How many cookies does each friend receive?

A. 80

B. 95

C. 90

D. 85



11)

What is labeled with the letter  $V$  in the diagram above?

A. A ray

B. The vertex

C. The arc

D. A side

12) A rectangle has a width of 6 feet. The area is 54 square feet. What is the length?

A. 8 ft

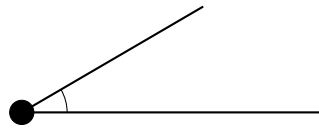
B. 9 ft

C. 10 ft

D. 12 ft



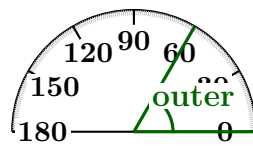
1)



Which statement is true about this angle?

- A. It is larger than a right angle
- B. It is smaller than a right angle
- C. It is equal to a right angle
- D. It is a straight angle

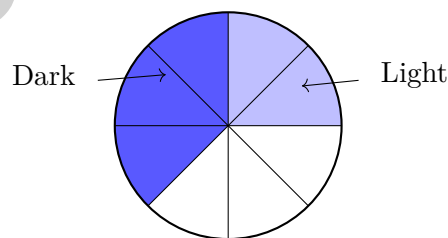
2)



When using a protractor, you have two scale choices (inner and outer). If the angle is opened towards the right side of the protractor, which scale should you use?

- A. Always use the inner scale
- B. Use the outer scale
- C. Use the scale that starts at 180 on the side where the angle opens
- D. It does not matter which scale you use

3) This pie model shows  $\frac{5}{8}$  decomposed into two shaded regions:



Which equation shows this decomposition?

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

4) A coach has 3 teams. Team A has 18 players, Team B has 22 players, and Team C has 20 players. They want to divide all players equally into 8 groups. How many players are in each group, and how many players are left over?

A. 15

C. 6 remainder 2

B. 8

D. 7 remainder 4

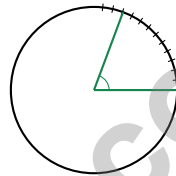
5) Which fraction equals  $6 \times \frac{1}{8}$ ?

A.  $\frac{1}{8}$

C.  $\frac{6}{48}$

B.  $\frac{6}{8}$

D.  $\frac{1}{48}$



6)

This angle has regular tick marks up to  $70^\circ$ . How many one-degree angles does it show?

A. 7 one-degree angles

C. 70 one-degree angles

B. 14 one-degree angles

D. 140 one-degree angles

7) In the number 8,888, the value of the digit 8 in the thousands place is how many times the value of the digit 8 in the tens place?

A. 100

C. 100 times greater

B. 10 times greater

D. 10 times less



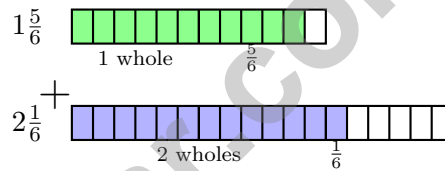
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1) Which shows correct estimation for  $47 \times 19$  using rounding?

- A.  $50 \times 20 = 1000$ 
 C.  $50 \times 10 = 500$   
 B.  $40 \times 20 = 800$ 
 D.  $40 \times 10 = 400$

2) Which description names a figure that would be symmetric about the described line?

- A. A right triangle with the line parallel to the hypotenuse  
 B. An isosceles triangle with the line through the vertex angle  
 C. A scalene triangle with the line through the center  
 D. A right triangle with legs of different lengths



3)

What is the sum shown by the bar diagrams?

- A.  $3\frac{4}{6}$ 
 C.  $3\frac{3}{6}$   
 B.  $3\frac{5}{6}$ 
 D. 4

4) Subtract:  $7,104 - 2,356 = ?$

- A. 4,748
  C. 5,748  
 B. 4,758
  D. 4,648



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5) Which statement is true?

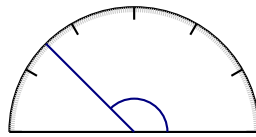
A.  $0.6 > 0.68$

B.  $0.6 < 0.68$

C.  $0.6 = 0.68$

 D. 0.68 is smaller than 0.6

6) Is 50 prime or composite?

 A. Prime B. Sometimes C. Neither D. Composite

7)

What is the measure of the angle shown?

 A. 90 degrees B. 120 degrees C. 135 degrees D. 150 degrees

8) Which statement is true?

A.  $\frac{40}{100} < \frac{4}{10}$

B.  $\frac{40}{100} = \frac{4}{10}$

C.  $\frac{40}{100} > \frac{4}{10}$

D.  $\frac{40}{100} = \frac{40}{10}$

9) Noah is training for a race. Each day he jogs  $\frac{1}{2}$  mile. If he trains for 4 days, how far does he jog in total?

 A.  $\frac{1}{8}$  mile B.  $\frac{4}{4}$  miles C. 2 miles D.  $\frac{1}{2}$  mile

## Practice Test Answer Keys

**How to use this section with a Grade 4 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.** (4.NF.5) A ribbon 0.75 meters long is  $\frac{75}{100}$  of a meter (or three quarters of a meter).
- 2) **Choice B is correct.** (4.NF.4) The numerator 7 tells us we have 7 copies of the unit fraction. The denominator 10 tells us the unit fraction is  $\frac{1}{10}$ . So  $\frac{7}{10} = 7 \times \frac{1}{10}$ .
- 3) **Choice C is correct.** (4.MD.5) The angle spans a measure of  $60^\circ$ , so it contains **60** one-degree angles.
- 4) **Choice D is correct.** (4.NF.3) The number line is divided into 4 equal parts. Three of those parts takes us to  $\frac{3}{4} = \frac{1}{4} + \frac{1}{4} + \frac{1}{4}$ .
- 5) **Choice D is correct.** (4.MD.4) The shortest measurement is at  $\frac{0}{8}$  and the longest is at  $\frac{6}{8}$ . The difference is  $\frac{6}{8} - \frac{0}{8} = \frac{6}{8}$ .
- 6) **Choice C is correct.** (4.NF.3) Add the wholes:  $4 + 1 = 5$ . Add the fractions:  $\frac{1}{4} + \frac{2}{4} = \frac{3}{4}$ . The sum is  **$5\frac{3}{4}$** .
- 7) **The correct answer is 1.** (4.NF.3) Add the numerators:  $5 + 1 = 6$ . We get  $\frac{6}{6}$ , which equals **1** whole.
- 8) **Choice B is correct.** (4.NF.4) Five jump rope segments, each  $\frac{2}{4}$  yard long, give us  $5 \times \frac{2}{4} = \frac{10}{4}$  yards total.
- 9) **Choice C is correct.** (4.MD.2) One batch needs 8 cups of flour. For 4 batches, multiply:  $8 \times 4 = 32$  cups. The baker needs **32** cups of flour.
- 10) **Choice C is correct.** (4.NBT.6) Divide:  $54 \div 6 = 9$ , and  $0 \div 6 = 0$  gives us 90. Each friend receives **90** cookies.
- 11) **Choice B is correct.** (4.MD.5) Point *V* marks the vertex—the point where the two rays meet.
- 12) **Choice B is correct.** (4.MD.3) From  $54 = \ell \times 6$ : Divide to get  $\ell = 54 \div 6 = 9$  ft.
- 13) **Choice C is correct.** (4.G.3) A regular pentagon (5 equal sides) has five lines of balance. Each line passes through one corner and the middle of the opposite side. The answer is **5** lines of symmetry.
- 14) **Choice A is correct.** (4.MD.7) Split the angle equally into 3 parts:  $99^\circ \div 3 = \mathbf{33^\circ}$ .
- 15) **The correct answer is B, D.** (4.MD.5) Choice B: A half turn is  $\frac{1}{2} \times 360^\circ = \mathbf{180^\circ}$  ✓. Choice D: The minute hand from 12 to 6 is a half turn, also  $\mathbf{180^\circ}$  ✓. Choice A:  $\frac{1}{4} \times 360^\circ = 90^\circ$ . Choice C:  $\frac{2}{3} \times 360^\circ = 240^\circ$ . Choice E: 12 to 3 is one-quarter, or  $90^\circ$ .
- 16) **Choice D is correct.** (4.OA.4) Unit squares in each figure: 2, 4, 6. Each time adds 2. Figure 5 has  $6 + 2 + 2 = \mathbf{10}$  squares.
- 17) **Choice D is correct.** (4.NBT.1) The first three digits (hundred-thousands, ten-thousands, thousands) match. Hundreds:  $3 < 4$ , so Chart 1 is less ✓
- 18) **Choice D is correct.** (4.OA.1) “3 times as many” is a multiplication signal. Jordan has 3 groups of Alex’s 7 pencils:  $7 \times 3 = 21$  pencils.
- 19) **Choice C is correct.** (4.MD.1) Since 1 meter = 1,000 millimeters, multiply:  $3 \times 1,000 = 3,000$  mm. The answer is **3,000** mm.
- 20) **Choice B is correct.** (4.NF.4) On the number line, we make 4 jumps of  $\frac{1}{4}$  each, starting at 0 and landing at 1. So  $4 \times \frac{1}{4} = \frac{4}{4} = 1$ . The answer is **1**.
- 21) **Choice D is correct.** (4.OA.2) “3 times as many” means multiply:  $3 \times 15 = 45$ . *Tip:*  $3 \times 10 = 30$  and  $3 \times 5 = 15$ , so  $30 + 15 = 45$  pages.
- 22) **Choice D is correct.** (4.NBT.3) We’re rounding to the nearest hundred. Look at the tens digit: 5. Since  $5 \geq 5$ , we round UP! The hundreds digit changes from 5 to 6, giving us **11,600**. ✓
- 23) **Choice D is correct.** (4.NBT.1) From the chart, the hundreds digit is 2. Its value is  $2 \times 100 = 200$ . Statement B is true. ✓
- 24) **Choice A is correct.** (4.NBT.4) Ming’s friend gave her more stickers, so we add.  $567 + 234 = \mathbf{801}$  stickers.
- 25) **The correct answer is  $\frac{8}{9}$ .** (4.NF.3) Maya painted her bedroom wall over two days. Add the fractions with like denominators:  $\frac{6}{9} + \frac{2}{9} = \frac{8}{9}$  of the wall was painted in total.
- 26) **Choice B is correct.** (4.NF.5) Both fractions represent the same amount—one-half. We can write it as  $\frac{50}{100} = \frac{5}{10}$ .
- 27) **The correct answer is 0.6.** (4.NF.5) Any decimal between 0.5 and 0.8 (not including the endpoints) works. For example, **0.6** has 6 tenths, which is more than 0.5’s 5 tenths and less than 0.8’s 8 tenths. So  $0.5 < 0.6 < 0.8$ . ✓ Other valid answers: 0.51, 0.55, 0.7, 0.79, etc.



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## Hi, Brave Explorer!

◇ What a trip! You explored 6 full tests. You went to many math places: multiplication, fractions, area, time, and more. ◇

★ **Smart explorers know:** every trip teaches something. Through 6 tests, you learned a lot. You are a stronger math explorer now. ★

### Your Explorer Tools

- **Map Reading:** You read problems carefully.
- **Trail Skills:** You take steps in the right order.
- **Backpack:** You have many math tools.
- **Brave Heart:** You explore even hard problems.

**Explorer tip:** on test day, use the tools you packed. You have the skills. 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 Trail Guide

# PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students strengthen their math skills, master important concepts, and build confidence for test success.

With 6 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to improve accuracy, develop critical thinking, and achieve their best.

Ideal for classroom use, homework, test preparation, and extra practice at home.

## PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Confidence Building

★ **CONFIDENCE IN MATH.  
SUCCESS FOR LIFE.**

## WHAT STUDENTS WILL GAIN



### Stronger Math Skills

Build a solid foundation through targeted practice and review.



### Better Problem Solving

Develop logical thinking and effective solution strategies.



### Test Confidence

Become familiar with test-style questions and formats.



### Track Progress

Measure growth across multiple practice tests.



### Master Key Concepts

Reinforce important skills aligned with grade-level standards.



### Prepare for Success

Build the confidence needed to do your best on test day.

## TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals
- ✓ Geometry & Measurement
- ✓ Perimeter & Area
- ✓ Data, Graphs & Line Plots
- ✓ Patterns & Algebraic Thinking
- ✓ And More!



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for additional Grade 4 math resources and practice materials.

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Encourages Independent Learning



Prepares Students for Test Day Success