

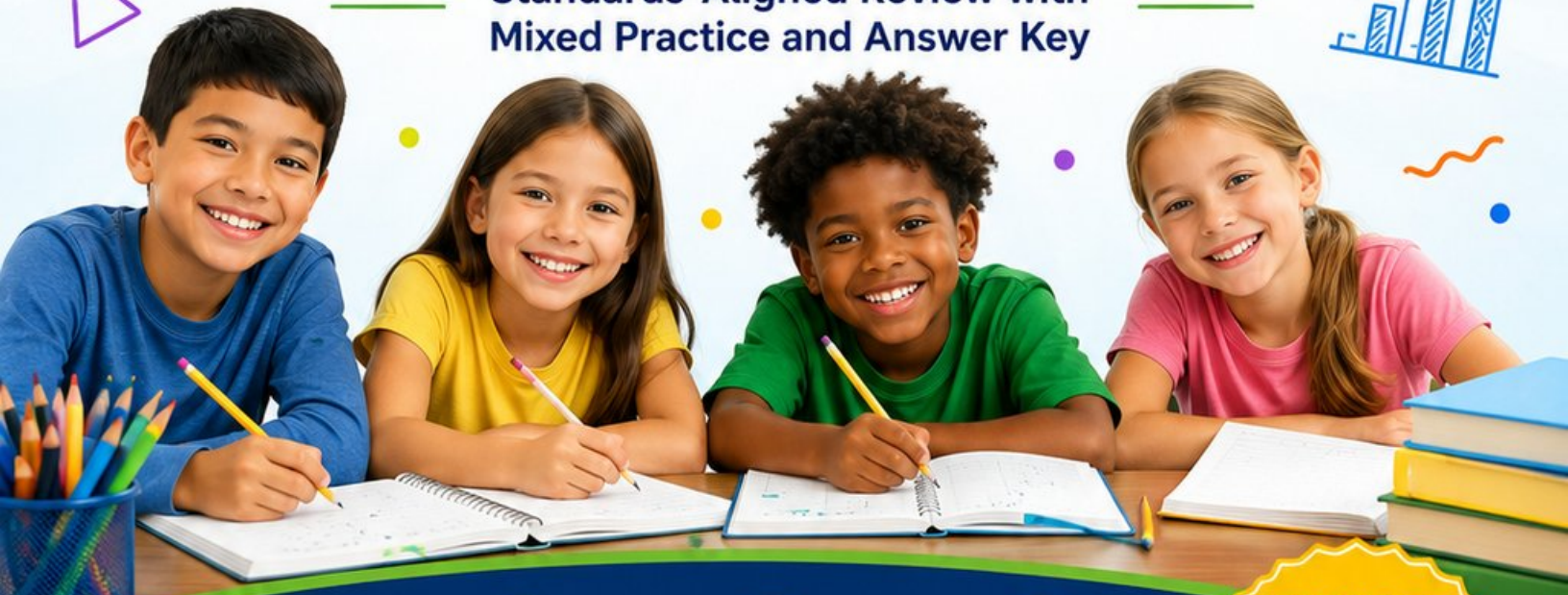
# 7

# South Dakota

Smarter Balanced

## GRADE 4 MATH PRACTICE TESTS

Standards-Aligned Review with  
Mixed Practice and Answer Key



7 Full-Length  
Practice Tests



Standards-  
Aligned



Build Confidence  
and Skills



Mixed Question  
Types

**ANSWER  
KEY**

**INCLUDED**

$$\begin{array}{r} 25 \\ +37 \\ \hline 62 \end{array}$$

$$\begin{array}{r} 8 \times 7 \\ = \\ 56 \end{array}$$

# 7 South Dakota Smarter Balanced Grade 4 Math Practice Tests

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



Seven 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!

Seven steady rounds on the Mount Rushmore State math route

This book gives you seven 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?

Seven tests, 210 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 5–7	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

# Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	25
★ Practice Test 3	_____	36
★ Practice Test 4	_____	48
★ Practice Test 5	_____	60
★ Practice Test 6	_____	72
★ Practice Test 7	_____	83
<b>Practice Test Answer Keys</b>	_____	94
<b>Practice Test Answers and Explanations</b>	_____	99

- 1) A juice jug contains 2 liters. How many milliliters is this?

- 2) Add:  $23,567 + 14,321 = ?$

- A. 37,888                       C. 38,888  
 B. 37,878                       D. 37,788

- 3) A geometric pattern grows with stacked shapes:



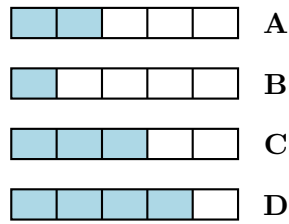
How many unit squares are in Figure 4?

- A. 25                               C. 20  
 B. 18                               D. 16
- 4) In the number 2,222, which 2 has the greatest value?
- A. The 2 in the ones place                       C. The 2 in the hundreds place  
 B. The 2 in the tens place                       D. The 2 in the thousands place

- 5) A line plot shows plant heights in halves of an inch. The measurements are:  $\frac{1}{2}$  in, 1 in,  $\frac{1}{2}$  in,  $\frac{3}{2}$  in, 1 in, 1 in. How many X marks should be placed at 1 inch on the line plot?

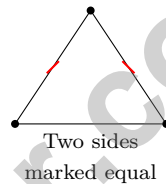


6) Which picture shows  $\frac{2}{5}$  as two unit fractions of  $\frac{1}{5}$ ?



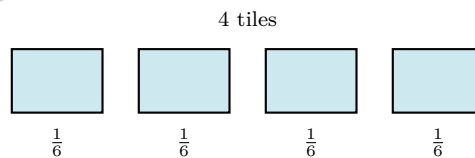
- A. Picture A
- B. Picture B
- C. Picture C
- D. Picture D

7) A triangle has two sides that are equal in length and one side that is different. What is it called?



- A. Scalene triangle
- B. Isosceles triangle
- C. Equilateral triangle
- D. Obtuse triangle

8) Maya lined up 4 unit-fraction tiles. If each tile is  $\frac{1}{6}$ , what is the total?



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



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9) Simplify  $\frac{5}{10}$  by dividing both numerator and denominator by 5. What fraction do you get?

A.  $\frac{1}{2}$

B.  $\frac{1}{5}$

C.  $\frac{5}{5}$

D.  $\frac{0}{5}$

10) The long division diagram shows  $2,688 \div 3$ . What is the quotient?

$$\begin{array}{r}
 \text{quotient} \\
 896 \\
 3 \overline{) 2688} \\
 \underline{-24} \phantom{00} \\
 28 \phantom{00} \\
 \underline{-27} \phantom{00} \\
 18 \phantom{00} \\
 \underline{-18} \phantom{00} \\
 0
 \end{array}$$

A. 876

B. 886

C. 906

D. 896

11) During lunch, Maya ate  $\frac{3}{8}$  of a sandwich and her friend ate  $\frac{1}{4}$  of the same sandwich. Who ate more?

 A. Maya ate more

 B. Her friend ate more

 C. They ate the same

 D. Cannot determine

12) Which fraction is equivalent to a shaded amount of  $\frac{20}{100}$ ?

A.  $\frac{2}{10}$

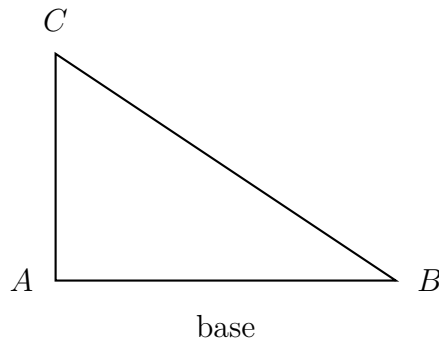
B.  $\frac{20}{10}$

C.  $\frac{200}{100}$

D.  $\frac{20}{200}$



1) Look at this right triangle. Does it have any lines of symmetry?



- A. Yes, it has 1 line  
 B. Yes, it has 2 lines  
 C. No, it has 0 lines  
 D. Yes, it has 3 lines

2) A garden bed requires  $\frac{2}{3}$  bag of soil. How many bags are needed for 6 garden beds?

- A.  $\frac{6}{3}$  bags (or 2 bags)  
 B.  $\frac{2}{18}$  bag  
 C.  $\frac{12}{3}$  bags (or 4 bags)  
 D.  $\frac{6}{9}$  bag

3) Sam has \$0.25. Write this amount as a fraction of a dollar.

4) How many  $\frac{1}{3}$  are there in the expression  $\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3}$ ?

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



5) Which list is ordered correctly from least to greatest?

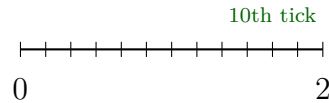
A. 0.7, 0.67, 0.77, 0.6

C. 0.77, 0.7, 0.67, 0.6

B. 0.6, 0.67, 0.7, 0.77

D. 0.67, 0.6, 0.7, 0.77

6) A number line from 0 to 2 has tick marks every  $\frac{1}{6}$ . What fraction is at the 10th tick mark?



A.  $\frac{6}{6}$

C.  $\frac{10}{12}$

B.  $\frac{10}{6}$

D.  $\frac{5}{6}$

7) A digit 2 in the thousands place has how many times the value of a digit 2 in the tens place?

A. 10

C. 100

B. 50

D. 1,000

8) A pattern starts at 3 and follows the rule “add 4.” What is the 5th term in the pattern?

A. 15

C. 19

B. 16

D. 23

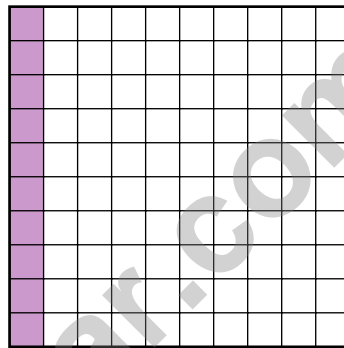
9) A spinner is divided into 6 equal sectors around a center point. Each sector spans how many degrees?



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1) Which decimal is greater: 0.64 or 0.46?

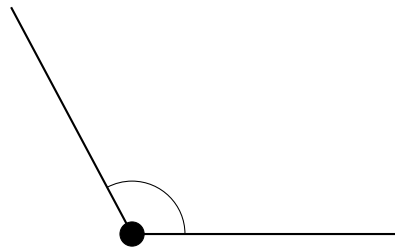
2) Ming shaded  $\frac{1}{10}$  of a rectangle. How many hundredths is this?



1 column shaded out of 10 columns

- A. 1 hundredth                       C. 100 hundredths  
 B. 10 hundredths                       D. 11 hundredths

3)



This angle is bigger than a right angle. What is it called?

- A. Acute                                       C. Obtuse  
 B. Right                                       D. Straight



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& answers

4) Round 66,505 to the nearest thousand.

A. 66,000

C. 66,500

B. 70,000

D. 67,000

5) Tyler has 6 toy trains. His cousin has 4 times as many toy trains. How many toy trains does his cousin have?

6) The perimeter of a rectangle is 24 meters. If the length is 7 meters, what is the width?

A. 3 m

C. 5 m

B. 4 m

D. 6 m

7) A factory produces 46 widgets per hour. If the factory runs for 12 hours, how many widgets are produced?

A. 552 widgets

C. 485 widgets

B. 598 widgets

D. 621 widgets



## 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

- The correct answer is 2,000.** (4.MD.1) Since 1 liter = 1,000 milliliters, multiply:  $2 \times 1,000 = 2,000$  mL.
- Choice A is correct.** (4.NBT.4) Add by place value: ones  $7 + 1 = 8$ , tens  $6 + 2 = 8$ , hundreds  $5 + 3 = 8$ , thousands  $3 + 4 = 7$ , ten-thousands  $2 + 1 = 3$ . The sum is **37,888**.
- Choice D is correct.** (4.OA.4) Squares form a grid: Figure 1 =  $1 \times 1 = 1$ , Figure 2 =  $2 \times 2 = 4$ , Figure 3 =  $3 \times 3 = 9$ , Figure 4 =  $4 \times 4 = 16$  squares.
- Choice D is correct.** (4.NBT.1) The thousands place has the greatest value among all places. The 2 in the thousands place (2,000) is much larger than 200, 20, or 2. Answer: the **2** in the thousands place. ✓
- The correct answer is 3.** (4.MD.4) Count how many times 1 inch (which is  $\frac{2}{2}$  inch) appears in our measurements: 1, 1, 1 = **3** times.
- Choice A is correct.** (4.NF.4) Count the shaded parts: there are 2 shaded parts. Count the equal parts: there are 5 total parts. So the fraction bar shows 2 copies of  $\frac{1}{5}$ , which is  $\frac{2}{5}$ .
- Choice B is correct.** (4.G.2) An isosceles triangle has exactly two sides of equal length. The tick marks on two sides indicate those two sides are equal, making this an isosceles triangle. The answer is **B**.
- Choice C is correct.** (4.NF.4) Four tiles, each  $\frac{1}{6}$ , combine to make  $4 \times \frac{1}{6} = \frac{4}{6}$ .
- Choice A is correct.** (4.NF.1) Divide both numerator and denominator by 5:  $\frac{5}{10} = \frac{5 \div 5}{10 \div 5} = \frac{1}{2}$ .
- Choice D is correct.** (4.NBT.6) Follow the diagram:  $26 \div 3 = 8$  r2,  $28 \div 3 = 9$  r1,  $18 \div 3 = 6$ . Reading the quotient from the right side, we get **896**.
- Choice A is correct.** (4.NF.1) Convert to common denominator:  $\frac{1}{4} = \frac{2}{8}$ . Since  $\frac{3}{8} > \frac{2}{8}$ , Maya ate more.
- Choice A is correct.** (4.NF.5) We can simplify  $\frac{20}{100}$  by dividing both numerator and denominator by 10:  $\frac{20}{100} = \frac{2}{10}$ .
- Choice A is correct.** (4.MD.3)  $P = 2(11) + 2(7) = 22 + 14 = 36$  ft.
- Choice D is correct.** (4.G.3) A regular triangle means an equilateral triangle with three equal sides and angles. Three fold lines (each from a corner to the middle of the opposite side) create balance. The answer is **3** lines of symmetry.
- Choice D is correct.** (4.NBT.5) Multiply by tens and ones:  $9 \times (30 + 4) = 270 + 36 = \mathbf{306}$  points.
- Choice A is correct.** (4.NF.3) Two wholes need two  $\frac{5}{5}$  pieces, then add the  $\frac{3}{5}$ :  $\frac{5}{5} + \frac{5}{5} + \frac{3}{5} = \frac{13}{5}$  ✓.
- Choice B is correct.** (4.NF.3) Add the wholes:  $1 + 3 = 4$ . Add the fractions:  $\frac{5}{8} + \frac{3}{8} = \frac{8}{8} = 1$ . Combine:  $4 + 1 = \mathbf{5}$ .
- The correct answer is A, C.** (4.OA.2) “3 times as many” means  $3 \times 12 = 36$  blue balloons—that’s choice A. And the expression  $3 \times 12$  in choice C is exactly the calculation we just did, so it’s correct too. B (24) and D (15) come from wrong operations, and E uses + instead of  $\times$ .
- Choice C is correct.** (4.NF.3) Let’s count the unit fractions:  $\frac{1}{10}$  appears 8 times. The denominator stays 10, and the numerator is the count:  $\frac{8}{10}$ .
- Choice A is correct.** (4.NF.3) The student added the denominators by mistake:  $4 + 4 = 8$ . That’s the trap! With like denominators, keep it the same. Correct:  $2 + 3 = 5$  numerators, same denominator gives  $\frac{5}{4}$ , not  $\frac{5}{8}$ .
- Choice A is correct.** (4.NF.5) Compare the tenths place:  $0 < 1 < 9$ . For the two with tenths = 9, compare hundredths:  $0 < 9$ , so  $0.90 < 0.99$ .
- The correct answer is  $\frac{6}{4}$ .** (4.NF.4) With 6 tiles, each  $\frac{1}{4}$  meter long, we have  $6 \times \frac{1}{4} = \frac{6}{4} = 1\frac{1}{2}$  meters total.
- Choice D is correct.** (4.MD.5) On a clock, 3 and 9 are opposite each other, forming a straight line. The angle between them is **180°**.
- Choice D is correct.** (4.OA.4) To check, divide:  $36 \div 9 = 4$  exactly (no remainder). Since  $9 \times 4 = 36$ , yes—36 is a multiple of 9.
- Choice D is correct.** (4.NBT.1) In a six-digit number, the leftmost digit is the hundred-thousands place. Here, that’s 9 ✓
- Choice A is correct.** (4.MD.7) The ray rotates from one angle to a smaller one. The swept angle is:  $127^\circ - 39^\circ = \mathbf{88^\circ}$ .
- Choice A is correct.** (4.MD.5) Since 84 degrees is less than 90 degrees (a right angle), it is acute.



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& answers

Math Detective at Work

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## Hi, Math Detective!

◇ You did such a great job! You finished 7 tests like a real detective. You found the clues, used your tools, and solved the math. ◇

★ **Detectives know:** good work takes time. You took your time. You looked carefully. You found the answers! ★

### Your Detective Skills

- **Sharp Eyes:** You notice the small details.
- **Smart Plans:** You pick the right way to solve.
- **Brave Heart:** You try even when it's tricky.
- **Steady Work:** You finish what you start.

**Detective tip:** on test day, look carefully at each problem. Underline important words. Then solve like the detective you are!

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 Detective Helper

# 7 FULL-LENGTH TESTS TO MASTER GRADE 4 MATH!

This **Grade 4 Math Practice Tests** book provides the practice your child needs to build strong math skills, understand key concepts, and gain the confidence to succeed on every test.

With 7 full-length practice tests, a wide range of question types, and detailed answer explanations, students will improve accuracy, strengthen problem-solving abilities, and prepare for classroom success and beyond.



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### Test Confidence

Become familiar with test-style questions and formats.



### Track Progress

Measure growth across multiple practice tests.



### Academic Success

Strengthen skills needed for future learning.

$$\begin{array}{r} 45 \\ -17 \\ \hline 28 \end{array}$$



$$7 \times 8 = 56$$

## TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Multi-Digit Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals & Comparing Numbers
- ✓ Geometry & Shapes
- ✓ Measurement & Data
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
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Mixed Question Types



Answer Key Included