

# 4

# South Dakota

# Smarter Balanced

## GRADE 4

# MATH

## PRACTICE TESTS



5 FULL-LENGTH  
PRACTICE TESTS



Standards-Aligned Review with  
Mixed Practice and Answer Key



STANDARDS-ALIGNED  
REVIEW



MIXED PRACTICE  
QUESTIONS



ANSWER KEY  
INCLUDED



$$4 \times 7 = 28$$

$$36 \div 9 = 4$$

$$\begin{array}{r} 125 \\ + 87 \\ \hline 212 \end{array}$$



# 4 South Dakota Smarter Balanced Grade 4 Math Practice Tests

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



Four focused 30-question missions for Grade 4 math: number facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome, South Dakota Math Explorer!

Four steady rounds on the Mount Rushmore State math route

This book gives you four 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?

Four tests, 120 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 2–4    | Skill-building rounds with fractions, measurement, area, data, and two-step problems. |
| Tests 2–4    | 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.



Scan me!  
For more practice  
& answers

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- 1) Noah buys 8 boxes of cookies. Each box has 22 cookies. How many cookies does Noah buy?
- A. 154                                       C. 160  
 B. 200                                       D. 176
- 2) If an angle measures  $35^\circ$ , how many one-degree angles does it turn through?
- A. 3.5 one-degree angles                       C. 70 one-degree angles  
 B. 35 one-degree angles                       D. 350 one-degree angles
- 3) What is  $\frac{9}{12} - \frac{4}{12}$ ?
- A.  $\frac{5}{12}$                                                C.  $\frac{5}{24}$   
 B.  $\frac{13}{12}$                                                D.  $\frac{4}{12}$
- 4) Jackson hikes 4 miles. His dad hikes 9 times as many miles. How many miles does his dad hike?
- A. 4                                               C. 9  
 B. 5                                               D. 36
- 5) A pencil is  $\frac{2}{5}$  decimeter long. What is the total length of 5 pencils?
- A.  $\frac{2}{25}$  decimeter                               C.  $\frac{7}{5}$  decimeters  
 B.  $\frac{10}{5}$  decimeters (or 2 decimeters)       D.  $\frac{10}{25}$  decimeter



6) Which diagram shows a straight angle?



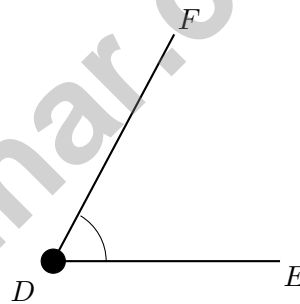
- A. Diagram A
- B. Diagram B
- C. Diagram C
- D. Diagram D

7) This place-value chart represents a number. Write the expanded form:

| Thousands | Hundreds | Tens | Ones |
|-----------|----------|------|------|
| 9         | 0        | 4    | 2    |

- A.  $9,000 + 400 + 2$
- B.  $90,000 + 400 + 20$
- C.  $9 + 0 + 4 + 2$
- D.  $9,000 + 40 + 2$

8)



Which name correctly identifies the angle with vertex at  $D$ ?

- A.  $\angle DEF$
- B.  $\angle FED$
- C.  $\angle EFD$
- D.  $\angle EDF$



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9) Is 19 prime or composite?

- A. Both  C. Neither  
 B. Composite  D. Prime

10) In a four-digit number, the thousands digit is 3, the hundreds digit is 4, the tens digit is 2, and the ones digit is 6. What is the number?

- A. 4,236  C. 2,346  
 B. 6,243  D. 3,246

11) A sewing project requires  $5\frac{2}{8}$  yards of fabric. The first part uses  $3\frac{1}{8}$  yards. How much fabric is left for the remaining parts?

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

12) Which comparison is true?

- A.  $0.6 < 0.59$   C.  $0.6 > 0.59$   
 B.  $0.6 = 0.59$   D.  $0.6 < 0.5$

13) Sam has 832 trading cards. He wants to organize them into 8 albums with the same number of cards per album. How many cards go in each album?

- A. 100  C. 109  
 B. 102  D. 104

14) A line plot shows student jump distances in eighths of a foot. The data are:  $\frac{2}{8}$  ft,  $\frac{3}{8}$  ft,  $\frac{5}{8}$  ft,  $\frac{2}{8}$  ft,  $\frac{3}{8}$  ft,  $\frac{3}{8}$  ft,  $\frac{5}{8}$  ft. What is the difference between the longest and shortest jump distances?



1) Here is a line plot with fourths:



Which value has exactly 2 more X marks than  $\frac{1}{4}$ ?

- A.  $\frac{2}{4}$ 
 C.  $\frac{7}{4}$   
 B.  $\frac{5}{4}$ 
 D. 2

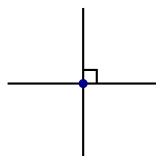
2) Which shows the error in this student work? The student said  $\frac{1}{4} + \frac{1}{4} = \frac{2}{8}$ .

- A. Should not add fractions with same denominators
  C. The correct answer is  $\frac{2}{4}$ , not  $\frac{2}{8}$   
 B. Adding the numerators and denominators separately (mistake)
  D. Cannot add fractions at all

3) What is  $\frac{4}{10}$  as a decimal?

- A. 0.04
  C. 4.0  
 B. 0.4
  D. 0.44

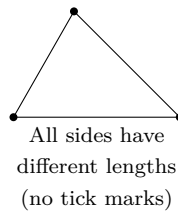
4) Two perpendicular lines intersect. How many right angles are formed?



- A. 1 right angle
  C. 3 right angles  
 B. 2 right angles
  D. 4 right angles

5) Write  $2\frac{5}{6}$  as an improper fraction.

6) Look at the triangle. All three sides have different lengths. What type is it?

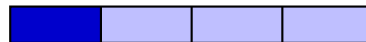


- A. Scalene triangle                       C. Equilateral triangle  
 B. Isosceles triangle                     D. Acute triangle

7) The letter  $V$  has how many lines of symmetry?

- A. 0                                               C. 2  
 B. 1                                               D. 3

8) What is  $\frac{4}{4} - \frac{1}{4}$ ?



Remove  $\frac{1}{4}$  (dark)  
Leaves ?

- A.  $\frac{3}{4}$                                                C.  $\frac{7}{4}$   
 B.  $\frac{3}{8}$                                                D.  $\frac{1}{4}$



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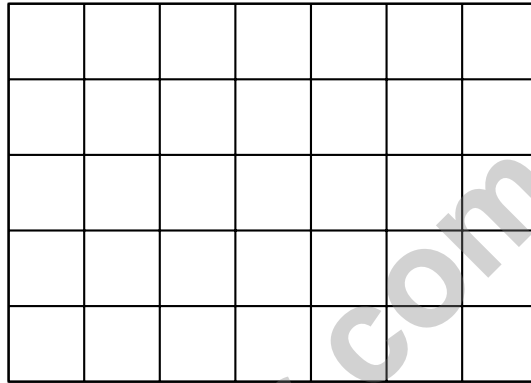
1) Tom has 8 red crayons. He has 3 times as many blue crayons as red crayons. How many blue crayons does Tom have?

A. 11

C. 32

B. 20

D. 24



2)

The grid shows a rectangle where each small square is 1 square unit. What is the perimeter of the rectangle?

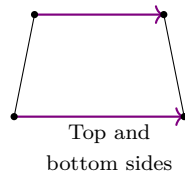
A. 35 units

C. 24 units

B. 48 units

D. 12 units

3) Look at the quadrilateral. Which pair of sides are parallel?



A. Top and bottom

C. All four sides

B. Left and right

D. No sides are parallel





## 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

- Choice D is correct.** **(4.NBT.5)** Separate the place values:  $8 \times (20 + 2) = 160 + 16 = 176$  cookies.
- Choice B is correct.** **(4.MD.5)** A  $35^\circ$  angle is made of **35** one-degree angles.
- Choice A is correct.** **(4.NF.3)** Subtract the numerators:  $9 - 4 = 5$ . Keep the same denominator:  $\frac{5}{12}$ .
- Choice D is correct.** **(4.OA.1)** “9 times as many” means multiply by 9:  $4 \times 9 = 36$  miles.
- Choice B is correct.** **(4.NF.4)** Five pencils, each  $\frac{2}{5}$  decimeter long, give us  $5 \times \frac{2}{5} = \frac{10}{5} = 2$  decimeters total.
- Choice D is correct.** **(4.G.1)** A straight angle is perfectly flat at  $180^\circ$  — like a line with two rays pointing opposite ways. Diagram D shows this flat, perfectly straight configuration.
- Choice D is correct.** **(4.NBT.1)** From the chart: thousands:  $9 \rightarrow 9,000$ , hundreds: 0 (omit), tens:  $4 \rightarrow 40$ , ones:  $2 \rightarrow 2$  ✓
- Choice D is correct.** **(4.MD.5)**  $\angle EDF$  correctly names the angle because the vertex,  $D$ , is the middle letter. The middle letter always tells us the vertex.
- Choice D is correct.** **(4.OA.4)** Try the small primes: 19 is odd (not  $\div 2$ ); digits  $1 + 9 = 10$  (not  $\div 3$ ); doesn’t end in 0 or 5 (not  $\div 5$ );  $7 \times 2 = 14$ ,  $7 \times 3 = 21$  (no 7). The only factors of 19 are 1 and 19 itself. *Exactly two factors = prime.*
- Choice D is correct.** **(4.NBT.1)** List the digits by place: thousands 3, hundreds 4, tens 2, ones 6. This forms **3,246**. ✓
- Choice A is correct.** **(4.NF.3)** The sewing project needs fabric, but the first part uses some. Subtract what the first part uses:  $5\frac{2}{8} - 3\frac{1}{8} = 2\frac{1}{8}$  yards of fabric left.
- Choice C is correct.** **(4.NF.5)** Compare place by place: Write 0.6 as 0.60. Now both have the same number of decimal places. Since  $60 > 59$  hundredths, we have  $0.6 > 0.59$ .
- Choice D is correct.** **(4.NBT.6)** Divide:  $83 \div 8 = 10$  r3, bring down the 2 to get  $32 \div 8 = 4$ . Each of Sam’s albums holds **104** trading cards.
- The correct answer is  $\frac{3}{8}$ .** **(4.MD.4)** The shortest jump is  $\frac{2}{8}$  ft and the longest is  $\frac{5}{8}$  ft. The difference is  $\frac{5}{8} - \frac{2}{8} = \frac{3}{8}$  foot.
- The correct answer is 8.** **(4.OA.2)** Dakota’s 32 beads are 4 times Ryan’s amount. To find Ryan’s, divide:  $32 \div 4 = 8$  beads.
- Choice C is correct.** **(4.NF.4)** The baker uses  $\frac{5}{8}$  cup for one batch, and makes 3 batches. Multiply:  $3 \times \frac{5}{8} = \frac{3 \times 5}{8} = \frac{15}{8} = 1\frac{7}{8}$  cups. The answer is  **$1\frac{7}{8}$**  cups.
- The correct answer is A, C.** **(4.NF.4)** A checkmark: three bars, each  $\frac{1}{5}$ , total  $\frac{3}{5}$ . C checkmark: three fifths reached by hops. B uses fourths (wrong). D and E show only one fifth (not three).
- The correct answer is 17.** **(4.OA.4)** Add 3 each time: 2, 5, 8, 11, 14, **17**. Figure 6 has **17** squares.
- Choice C is correct.** **(4.OA.3)** The tape diagram shows 7 guitars at \$6 each—“each” with a count is a multiplication clue. Step 1: set up:  $7 \times \$6$ . Step 2: solve:  $7 \times 6 = 42$ , so the store spends \$42. *Quick check:*  $\$42 \div 7 = \$6$  per guitar. ✓
- Choice C is correct.** **(4.NF.3)** To reach  $\frac{6}{10}$  with hops of  $\frac{1}{10}$ , we count: each hop is one unit fraction, and we need 6 copies to equal  $\frac{6}{10}$ . So **6** hops gets us there!
- Choice B is correct.** **(4.MD.6)** This angle is tiny—it opens just  $7^\circ$  from the baseline. Reading  $173^\circ$  would be confusing the inner and outer scales. A common mistake is to read the wrong scale when an angle is very small or very large. The answer is no, about 7 degrees.
- Choice A is correct.** **(4.G.2)** Examining the figure, no opposite sides appear to be parallel to each other. The single right angle marked at one corner does not indicate that opposite sides are parallel. The answer is **A**.
- Choice B is correct.** **(4.MD.5)** The angle spans from  $270^\circ$  to  $300^\circ$ , measuring  $30^\circ$ .
- Choice C is correct.** **(4.NF.3)** Add the wholes:  $3 + 1 = 4$ . Add the fractions:  $\frac{1}{3} + \frac{2}{3} = \frac{3}{3} = 1$ . Combine:  $4 + 1 = 5$  meters.
- Choice D is correct.** **(4.NBT.3)** We’re rounding to the nearest thousand. Look at the hundreds digit: 3. Since  $3 < 5$ , we round DOWN and keep the thousands digit as 2, giving us **12,000**. ✓
- Choice D is correct.** **(4.MD.1)** Convert  $\frac{1}{2}$  L to mL:  $\frac{1}{2} \times 1,000 = 500$  mL. Add all:  $250 + 500 + 200 = 950$  mL. The answer is **950** mL.



Notes From the Math Gardener

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## Hi, Math Gardener!

◇ Look at how much you grew! 4 tests is like 4 weeks of taking care of your math garden. Every problem was a seed. Every try was water. ◇

★ **Gardeners say:** growth takes time. You can't see roots, but they are there. You can't always feel smarter, but you are. Your math garden is full! ★

### Garden Check-Up

- **Roots:** STRONG! Your basic math is solid.
- **Stems:** STURDY! You can do step-by-step problems.
- **Leaves:** GREEN! You have lots of math tools.
- **Flowers:** BRIGHT! You feel proud of your work.

**Gardener tip:** keep watering your math garden long after the test. Every habit you built will grow with you for years!

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 Gardener

# PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students build strong math skills, master key concepts, and gain the confidence they need to excel.

With 4 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to strengthen problem-solving skills and achieve their best.

Perfect 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 TODAY.  
SUCCESS TOMORROW!**

## 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.



### 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 & Decimals
- ✓ Geometry & Measurement
- ✓ Data, Graphs & Line Plots
- ✓ Perimeter & Area
- ✓ Patterns & Algebraic Thinking
- ✓ Word Problems
- ✓ And More!



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