

# 3

# South Dakota

# Smarter Balanced

## GRADE 4

# MATH

## PRACTICE TESTS

Standards-Aligned Review with  
Mixed Practice and Answer Key



**5 FULL-LENGTH**  
PRACTICE TESTS



**STANDARDS-ALIGNED**  
REVIEW



**MIXED PRACTICE**  
QUESTIONS



**ANSWER KEY**  
INCLUDED

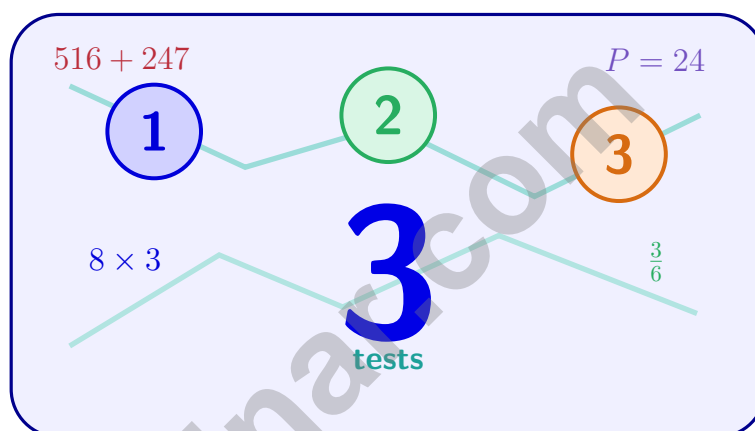
$$a^2 + b^2 = c^2$$

$$\frac{3}{4}$$



# 3 South Dakota Smarter Balanced Grade 4 Math Practice Tests

*Standards-Aligned Practice for Stronger Math Skills and Test Readiness*



Three 30-question trail tests packed with Grade 4 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, South Dakota Math Explorer!

Three steady rounds on the Mount Rushmore State math route

This book gives you three full Grade 3 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?

Three tests, 90 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 1–3	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 1–3	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

# Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	26
★ Practice Test 3	_____	37
Practice Test Answer Keys	_____	47
Practice Test Answers and Explanations	_____	50

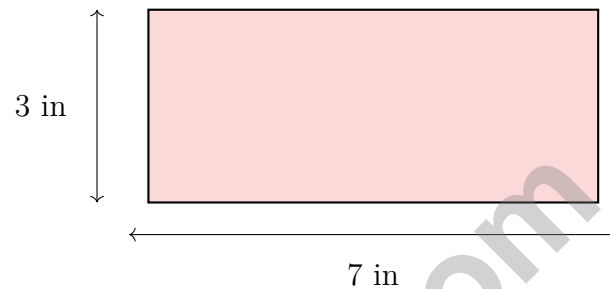
1) A garden path is  $\frac{10}{12}$  meter long. After rain,  $\frac{4}{12}$  meter washed away. How much remains?

A.  $\frac{14}{12}$  meters

B.  $\frac{6}{12}$  meter

C.  $\frac{6}{24}$  meter

D.  $\frac{4}{12}$  meter



2)

What is the perimeter of the rectangle shown?

A. 10 in

B. 20 in

C. 21 in

D. 42 in

3) Sam read 234 pages of a book on Monday. On Tuesday, he read 189 more pages. How many pages did he read in total?

A. 423 pages

B. 413 pages

C. 424 pages

D. 333 pages

4) What is 87,543 rounded to the nearest hundred?

A. 88,000

B. 87,540

C. 87,600

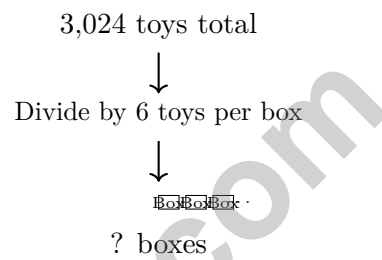
D. 87,500



5) A quadrilateral has two pairs of parallel sides and all four angles are right angles. The opposite sides are equal but not all sides are the same length. What is this shape?

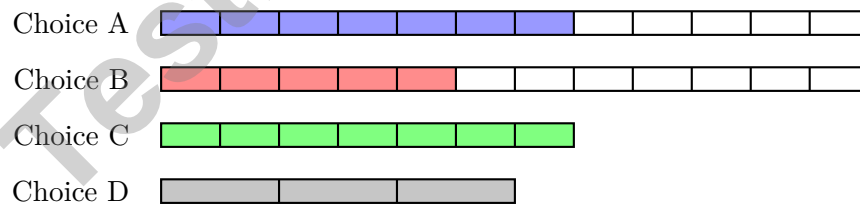
- A. Rhombus
- B. Trapezoid
- C. Rectangle
- D. Square

6) A small factory packs 3,024 toys into boxes. How many boxes of 6 toys per box can they fill?



- A. 504
- B. 514
- C. 494
- D. 524

7) Which fraction bar correctly shows  $\frac{7}{12}$ ?



- A. 7 shaded out of 12
- B. 5 shaded out of 12
- C. 7 shaded out of 7
- D. 3 shaded out of 3



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8) What is the name of the point where the two rays of an angle meet?


- A. The arc                       C. The vertex  
 B. The side                       D. The interior

9) What is  $2 \times 672$ ?

- A. 1244                       C. 1344  
 B. 1444                       D. 1544

10) Ava buys 3 boxes of markers. Each box has 12 markers. She also buys 6 loose markers. How many markers does she have in total?

- A. 30                       C. 18  
 B. 36                       D. 42

11) 

Harper collected 5 seashells. Jackson collected 3 times as many seashells as Harper. How many seashells did Jackson collect?

12) One basket holds 5 apples. Another basket holds 6 times as many apples. What is the total number of apples in both baskets?



1) Divide both the numerator and denominator of  $\frac{12}{16}$  by 4. What fraction do you get?

A.  $\frac{8}{12}$

B.  $\frac{4}{12}$

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

D.  $\frac{3}{4}$

2) A line plot with eighths shows data at:  $\frac{2}{8}$  (2 X marks),  $\frac{4}{8}$  (3 X marks),  $\frac{6}{8}$  (1 X mark). What is the range of this data?

A.  $\frac{2}{8}$

B.  $\frac{3}{8}$

C.  $\frac{4}{8}$

D.  $\frac{5}{8}$

3) Isha ran 0.86 miles. Patel ran 0.68 miles. Who ran farther?

 A. Isha (0.86 miles) B. Patel (0.68 miles) C. They ran the same distance D. Patel ran much farther

4) Is 11 prime or composite?

 A. Neither prime nor composite B. Composite C. Both prime and composite D. Prime

5) A recipe calls for  $\frac{3}{5}$  cup of milk. If you double the recipe, how much milk do you need?

A.  $\frac{3}{10}$  cup

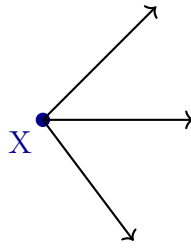
B.  $\frac{6}{5}$  cups (or  $1\frac{1}{5}$  cups)

C.  $\frac{5}{6}$  cup

D.  $\frac{2}{5}$  cup



6) In this diagram, how many rays start at point  $X$ ?



- A. 1 ray                       C. 3 rays  
 B. 2 rays                     D. 4 rays

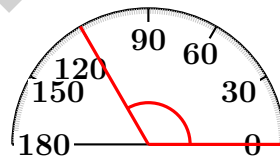
7) A non-square rhombus has how many lines of symmetry?

- A. 0                               C. 2  
 B. 1                               D. 4

8) An angle is divided into 27 one-degree angles. What is the measure of the angle?

- A.  $27^\circ$                          C.  $54^\circ$   
 B.  $13.5^\circ$                      D.  $270^\circ$

9)



A student measures an angle with a protractor. The angle opens to the 120-degree mark. What type of angle is this?

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



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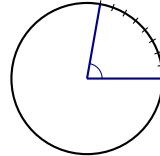
1) Which expanded form equals 0.34?

A.  $0.3 + 0.4$

C.  $3 + 0.4$

B.  $0.3 + 0.04$

D.  $3 + 4$



2)

Look at the angle shown. It is marked from  $0^\circ$  to  $80^\circ$ . Write the measure of the angle.

3) Which statement matches  $32 = 8 \times 4$ ?

 A. 32 is 4 less than 8 C. 32 is 8 more than 4 B. 32 is 4 more than 8 D. 32 is 8 times as many as 4

4) A line plot shows data in fourths. At  $\frac{1}{4}$  there are 2 X marks, at  $\frac{2}{4}$  there are 3 X marks, and at  $\frac{3}{4}$  there is 1 X mark. How many more X marks are at  $\frac{2}{4}$  than at  $\frac{3}{4}$ ?

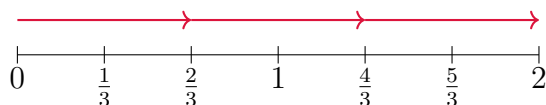
 A. 1 C. 3 B. 2 D. 4

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5) The school cafeteria served 1,250 lunches last month. What is the value of the digit 2 in this number?

- A. 2
- B. 20
- C. 200
- D. 2,000

6) Use the number line to find  $3 \times \frac{2}{3}$ .



- A.  $\frac{2}{3}$
- B.  $1\frac{1}{3}$
- C. 2
- D.  $\frac{9}{3}$  or 3

7) Which is greater,  $\frac{3}{5}$  or  $\frac{1}{2}$ ?

8) What is the mistake in this subtraction?

$$\begin{array}{r} 5,003 \\ -1,245 \\ \hline 4,758 \end{array}$$

- A. The student did not regroup correctly.
- B. The student added instead of subtracted.
- C. The answer is correct; there is no mistake.
- D. The student forgot to carry.

## 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 B is correct.** (4.NF.3) The path started at  $\frac{10}{12}$  meter. Rain washed away  $\frac{4}{12}$  meter. What's left:  $10 - 4 = 6$  twelfths, or  $\frac{6}{12}$  meter.
- Choice B is correct.** (4.MD.3) From the diagram: length is 7 in and width is 3 in. Perimeter =  $2(7) + 2(3) = 14 + 6 = 20$  in.
- Choice A is correct.** (4.NBT.4) Sam read pages on Monday and more on Tuesday, so we add.  $234 + 189 = 423$  pages total.
- Choice D is correct.** (4.NBT.3) We're rounding to the nearest hundred. Look at the tens digit: 4. Since  $4 < 5$ , we round DOWN. The hundreds digit stays at 5, giving us **87,500**. ✓
- Choice C is correct.** (4.G.2) This description fits a rectangle: two pairs of parallel sides, four right angles, and opposite sides equal (though not all four sides equal). These are the defining properties of a rectangle. The answer is **C**.
- Choice A is correct.** (4.NBT.6) Divide:  $30 \div 6 = 5$ , bring down the 2 to get  $2 \div 6 = 0$  r2, bring down the 4 to get  $24 \div 6 = 4$ . The factory can fill **504** boxes.
- Choice A is correct.** (4.NF.3) The fraction bar shows 12 equal parts with 7 shaded, which is  $\frac{7}{12}$ . This is  $\frac{1}{12} + \frac{1}{12} + \dots + \frac{1}{12}$ .  
7 unit fractions
- Choice C is correct.** (4.MD.5) The vertex is the point where two rays meet to form an angle.
- Choice C is correct.** (4.NBT.5) Use partial products:  $2 \times (600 + 70 + 2) = 1200 + 140 + 4 = 1344$ .
- Choice D is correct.** (4.OA.3) Two steps! Step 1: find how many markers are in the boxes.  $3 \text{ boxes} \times 12 \text{ markers} = 36$ . Step 2: add the loose markers:  $36 + 6 = 42$  markers in total.
- The correct answer is 15.** (4.OA.2) The bar model shows Jackson's bar is 3 equal pieces, each the size of Harper's 5 seashells. Multiply:  $3 \times 5 = 15$  seashells.
- The correct answer is 35.** (4.OA.1) Two steps. Step 1: the second basket has  $5 \times 6 = 30$  apples. Step 2: add the first basket for the total:  $5 + 30 = 35$  apples.
- Choice A is correct.** (4.G.1) Remember: vertex in the middle! Since  $E$  is where the rays meet, we write the angle as  $FED$  with  $E$  in the middle position.
- Choice D is correct.** (4.NF.1) Check D: Cross-multiply  $\frac{2}{5}$  and  $\frac{4}{12}$ :  $2 \times 12 = 24$  and  $5 \times 4 = 20$ . They're not equal, so D is false. A, B, and C are all true equivalent fractions.
- Choice A is correct.** (4.MD.2) There are 156 minutes of rehearsal for 4 days. Divide equally:  $156 \div 4 = 39$  minutes. Each day has **39** minutes of rehearsal.
- Choice D is correct.** (4.NF.4) We take 3 copies of  $\frac{2}{6}$ . Multiply:  $3 \times \frac{2}{6} = \frac{3 \times 2}{6} = \frac{6}{6} = 1$ . The answer is **1**.
- The correct answer is A, E.** (4.NF.5) Choice A:  $\frac{70}{100}$  is the hundredths form of  $\frac{7}{10}$ —multiply by  $\frac{10}{10}$ . Choice E is  $\frac{7}{10}$  itself. The others don't equal 7 tenths.
- Choice D is correct.** (4.OA.4) First find the rule by looking at the gaps:  $6 - 2 = 4$ ,  $10 - 6 = 4$ ,  $14 - 10 = 4$ ,  $18 - 14 = 4$ . So the rule is "add 4." Apply it once more:  $18 + 4 = 22$ .
- The correct answer is 9.** (4.NBT.1) Count from the right: ones, tens, hundreds, thousands. The tens place is the second digit from the right, which is **9**. ✓
- Choice C is correct.** (4.MD.4) First, count all X marks:  $2 + 3 + 4 = 9$ . Remove the 4 marks at  $\frac{6}{8}$  inch:  $9 - 4 = 5$  marks remain.
- Choice B is correct.** (4.NF.4) Starting at 0, we jump 8 times, each jump being  $\frac{1}{10}$ . The final position is  $8 \times \frac{1}{10} = \frac{8}{10}$ .
- Choice B is correct.** (4.NF.5) Compare the tenths place:  $9 > 3$ , so  $0.93 > 0.39$ . The second car is more expensive.
- Choice C is correct.** (4.NF.4) In 2 weeks, Mia receives her allowance twice. So we have  $2 \times \frac{3}{4} = \frac{6}{4}$  dollars, which simplifies to  $1\frac{1}{2}$  dollars.
- Choice A is correct.** (4.NF.5) The number line counts by tenths: 0.2 is the very first mark to the right of 0, so it's at position A.
- Choice A is correct.** (4.NF.4) Six parts, each one  $\frac{1}{9}$ :  $6 \times \frac{1}{9} = \frac{6}{9}$ .



**Trail Guide's Final Note**

---

**Hi, Brave Trail-Walker!**

◇ You walked all 3 miles of the practice trail. Smooth paths, steep climbs, narrow passes. Every step taught you something. ◇

★ **Trail guides know:** the most important thing is to keep moving. Slow steps still get you there. You have a steady stride now. ★

**Trail Survey**

- **Route Knowledge:** You know lots of problem types.
- **Steady Pace:** You don't rush. You don't stop.
- **Pack Loaded:** You have all the math tools you need.
- **Confidence:** You trust your training.

**Guide's tip:** on test day, stay on the trail you've walked before. Use the strategies you've practiced. Trust the route. The summit is one steady walk away!

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 designed to help students build strong math skills, master key concepts, and gain the confidence they need to excel on any test.

With 3 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.



### 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
- ✓ Measurement & Data
- ✓ Geometry & Shapes
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ And More!



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