

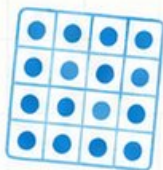
$$\begin{array}{r} 32 \\ \times 6 \\ \hline 192 \end{array}$$

10

$$7 \times 8 = 56$$



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



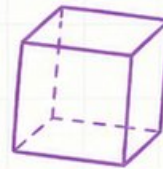
South Dakota



Smarter Balanced



GRADE 4



MATH

PRACTICE TESTS



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



10 South Dakota Smarter Balanced Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten 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!

Ten steady rounds on the Mount Rushmore State math route

This book gives you ten 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?

Ten tests, 300 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 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Test 10	Final round to show growth across the whole South Dakota book.
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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Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	25
★ Practice Test 3	_____	36
★ Practice Test 4	_____	48
★ Practice Test 5	_____	59
★ Practice Test 6	_____	71
★ Practice Test 7	_____	82
★ Practice Test 8	_____	94
★ Practice Test 9	_____	105
★ Practice Test 10	_____	116
Practice Test Answer Keys	_____	127
Practice Test Answers and Explanations	_____	133

1) Which is true?

A. $\frac{4}{10} > \frac{8}{10}$
 B. $\frac{4}{10} = \frac{8}{10}$

C. $\frac{4}{10} < \frac{8}{10}$
 D. Cannot compare

2) Write $\frac{8}{5}$ as a mixed number.

3) A gift was wrapped with ribbon. The first wrap used $2\frac{3}{8}$ meters and the second wrap used $1\frac{1}{8}$ meters. What is the total ribbon used?

A. $3\frac{4}{8}$
 B. $1\frac{2}{8}$

C. $4\frac{1}{8}$
 D. $2\frac{2}{8}$

4) A rectangle has an area of 88 square meters. The width is 8 meters. What is the length?

A. 10 m
 B. 12 m

C. 11 m
 D. 13 m

5) A school library has 12 books about animals. It has 4 times as many books about sports. How many sports books does the library have?

A. 16
 B. 32

C. 42
 D. 48



6) What is $5 \times \frac{1}{4}$?

A. $\frac{1}{20}$

B. $\frac{4}{5}$

C. $\frac{5}{4}$

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

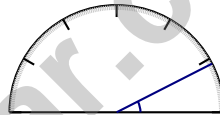
7) Which statement about the letter D is true?

 A. It has 1 line of symmetry B. It has 2 lines of symmetry C. It has no line of symmetry D. It has 4 lines of symmetry

8) A school gym has 14 benches. Each bench seats 35 people. How many people can sit on all the benches?

 A. 490 people B. 420 people C. 560 people D. 630 people

9)



What is the measure of the angle shown?

 A. 25 degrees B. 27 degrees C. 30 degrees D. 32 degrees

10) What is $\frac{90}{100}$ as a decimal?

 A. 0.09 B. 0.9 C. 9.0 D. 0.99

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11) Which choice shows the correct long division answer for $1,953 \div 3$?

A. 651

C. 641

B. 631

D. 661

12) A baker needs $\frac{7}{12}$ cup of sugar and has $\frac{3}{12}$. How much more is needed?

13) If you multiply the numerator and denominator of $\frac{2}{5}$ by 3, what fraction do you get?

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

C. $\frac{5}{15}$

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

D. $\frac{6}{15}$

14) A rope measures 1,200 centimeters. How many meters is this?

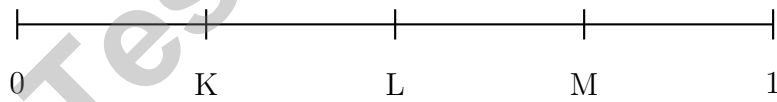
A. 12

C. 1,200

B. 120

D. 120,000

15) Where is 0.55 located on this number line?



A. At K

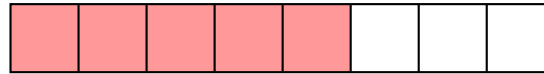
C. At L

B. Between K and L

D. Between L and M

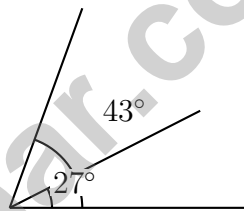


- 1) A rectangle is divided into 8 equal columns. 5 columns are painted red. Show the red fraction as a sum of unit fractions.



5 red columns out of 8

- A. $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$
 C. 5 parts of 5
 B. $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$
 D. $\frac{5}{5}$
- 2) An angle is formed by three rays meeting at a point. The first ray creates an angle of 27° , the second creates 43° , and together these form a larger angle. What is this larger angle measure?

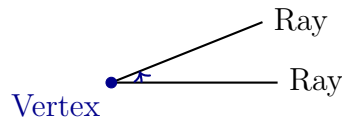


- A. 70°
 C. 90°
 B. 16°
 D. 100°
- 3) Which shows the correct first step when adding $3,456 + 2,789$ using regrouping?
- A. $6 + 9 = 15$ (write 5, carry 1)
 C. $4 + 7 = 11$ (write 1, carry 1)
 B. $5 + 8 = 13$ (write 3, carry 1)
 D. $3 + 2 = 5$ (no carry)



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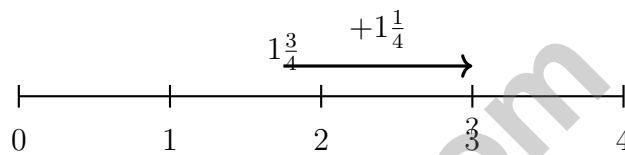
4) Look at this angle:



What type of angle is this?

- A. An acute angle C. An obtuse angle
 B. A right angle D. A straight angle

5)



Using the number line, what is $1\frac{3}{4} + 1\frac{1}{4}$?

- A. 3 C. $2\frac{1}{4}$
 B. $2\frac{3}{4}$ D. $3\frac{1}{4}$
- 6) A rope is 12 feet long. How many yards is this?
- A. 2 C. 4
 B. 3 D. 6
- 7) What decimal is equal to $0.2 + 0.09$?
- A. 0.11 C. 0.209
 B. 0.29 D. 2.9



1) Ava drinks $\frac{1}{4}$ cup of juice 4 times a day. How much juice does she drink altogether?

A. $\frac{4}{4}$ cup or 1 cup

C. $\frac{4}{1}$ cup

B. $\frac{1}{16}$ cup

D. $\frac{2}{4}$ cup

2) What is the missing addend: $2\frac{3}{5} + ? = 5\frac{2}{5}$

A. $3\frac{1}{5}$

C. 3

B. $2\frac{3}{5}$

D. $2\frac{4}{5}$

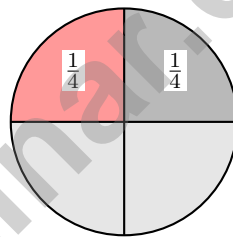
3) A triangle has one right angle. What type of triangle is it?

A. Acute triangle

C. Right triangle

B. Obtuse triangle

D. Equilateral triangle



4)

remaining

A pie is divided into 4 equal slices. Two slices are shown (each $\frac{1}{4}$ of the pie). What fraction of the pie remains?

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

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

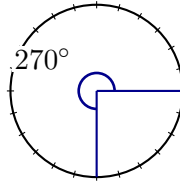
B. $\frac{1}{4}$

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



5) At the farmers market, Noah's apple weighs 0.22 kg and Lin's apple weighs 0.27 kg. Whose apple is heavier?

- A. Noah's apple (0.22 kg) D. Cannot tell without more information
- B. Lin's apple (0.27 kg)
- C. Both apples weigh the same



6)

This is a reflex angle measuring 270 degrees. How many one-degree angles make it?

- A. 135 one-degree angles C. 540 one-degree angles
- B. 270 one-degree angles D. 27 one-degree angles

7) Which product equals $\frac{8}{12}$?

- A. $2 \times \frac{1}{12}$ C. $8 \times \frac{1}{12}$
- B. $4 \times \frac{1}{12}$ D. $12 \times \frac{1}{8}$

8) Ming's bookshelf is a rectangle. It is 16 inches long and 12 inches wide. What is the area of the bookshelf?

- A. 192 sq in C. 28 sq in
- B. 56 sq in D. 256 sq in



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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 C is correct.** **(4.NF.1)** Same denominator, so compare numerators: $4 < 8$ means $\frac{4}{10} < \frac{8}{10}$.
- The correct answer is $1\frac{3}{5}$.** **(4.NF.3)** One whole is $\frac{5}{5}$, leaving $8 - 5 = 3$ more fifths. So $\frac{8}{5} = 1\frac{3}{5}$ ✓.
- Choice A is correct.** **(4.NF.3)** A gift was wrapped with ribbon in two parts. Add the ribbon used: $2\frac{3}{8} + 1\frac{1}{8} = 3\frac{4}{8}$ meters total.
- Choice C is correct.** **(4.MD.3)** From $88 = \ell \times 8$: Divide to get $\ell = 88 \div 8 = 11$ m.
- Choice D is correct.** **(4.OA.2)** “4 times as many” is a multiplication signal: $4 \times 12 = 48$. *Tip:* $4 \times 10 = 40$ and $4 \times 2 = 8$, so $40 + 8 = 48$ sports books.
- Choice C is correct.** **(4.NF.4)** When we multiply by the numerator, we keep the denominator the same. So $5 \times \frac{1}{4} = \frac{5}{4}$.
- Choice A is correct.** **(4.G.3)** The letter *D* has a straight line on the left and a curved bulge on the right. A horizontal line across the middle balances the top curve with the bottom curve. The answer is It has 1 line of symmetry.
- Choice A is correct.** **(4.NBT.5)** Distribute: $14 \times (30 + 5) = 420 + 70 = 490$ people.
- Choice B is correct.** **(4.MD.6)** The ray points to the 27° mark, which is between 20° and 30° . Since $27^\circ < 90^\circ$, this is a small acute angle. The answer is **27** degrees.
- Choice B is correct.** **(4.NF.5)** Ninety hundredths is written as $0.90 = 0.9$.
- Choice A is correct.** **(4.NBT.6)** Use long division: $1 \div 3 = 0$ r1, bring down the 9 to get $19 \div 3 = 6$ r1, bring down the 5 to get $15 \div 3 = 5$, bring down the 3 to get $3 \div 3 = 1$. The answer is **651**.
- The correct answer is $\frac{1}{3}$.** **(4.NF.3)** The baker needs $\frac{7}{12}$ cup and has $\frac{3}{12}$. What’s needed: $7 - 3 = 4$ twelfths more, or $\frac{4}{12}$ (which simplifies to $\frac{1}{3}$).
- Choice D is correct.** **(4.NF.1)** Multiply both top and bottom by 3: $\frac{2}{5} = \frac{2 \times 3}{5 \times 3} = \frac{6}{15}$.
- Choice A is correct.** **(4.MD.1)** Since 1 meter = 100 centimeters, divide: $1,200 \div 100 = 12$ meters. The answer is **12** meters.
- Choice D is correct.** **(4.NF.5)** Look at the number line: L is at 0.50 and M is at 0.75. Since 0.55 falls between these, it’s in the region between L and M.
- Choice C is correct.** **(4.OA.4)** Add the two previous terms: $8 + 13 = 21$. This is a Fibonacci-like pattern. ✓
- The correct answer is A, D.** **(4.MD.4)** Statement A is true: the total X marks is $1 + 2 + 3 + 1 = 7$. Statement D is true: the mode is $\frac{4}{8}$ with 3 X marks (the most). The range is $\frac{5}{8} - \frac{1}{8} = \frac{4}{8}$, so B and C are false. There are only 3 X marks at $\frac{4}{8}$, not 6, so E is false.
- Choice B is correct.** **(4.NF.3)** Subtract the wholes: $4 - 1 = 3$. Subtract the fractions: $\frac{4}{5} - \frac{2}{5} = \frac{2}{5}$. She used **$3\frac{2}{5}$** meters.
- Choice D is correct.** **(4.OA.1)** “5 times as many” means we multiply. Leo’s sister reads 5 groups of 2 books, so $5 \times 2 = 10$ books.
- Choice A is correct.** **(4.MD.7)** The diagram shows a ray splitting the angle. Subtract to find the larger part: $136^\circ - 52^\circ = 84^\circ$.
- Choice B is correct.** **(4.G.2)** A parallelogram has two pairs of opposite sides that are parallel to each other. This is the defining characteristic that distinguishes a parallelogram from trapezoids and other quadrilaterals. The answer is **B**.
- Choice C is correct.** **(4.MD.5)** The interior of an angle is the space inside, between the two rays.
- Choice A is correct.** **(4.NBT.4)** Add using the standard algorithm: ones $7 + 5 = 12$ (write 2, carry 1), tens $6 + 4 + 1 = 11$ (write 1, carry 1), hundreds $5 + 3 + 1 = 9$, thousands $4 + 2 = 6$. The sum is **6,912**.
- The correct answer is 90.** **(4.G.1)** The corner of a square is always a right angle, and a right angle is always 90° .
- Choice D is correct.** **(4.NBT.1)** From the chart, the digit 5 is in the hundreds place. If moved to the thousands place, its value becomes $5 \times 1,000 = 5,000$. Answer: **The 5**. ✓
- Choice B is correct.** **(4.NF.5)** The fraction $\frac{7}{10}$ equals 7 tenths, which is 0.7 or 0.70.
- Choice D is correct.** **(4.NBT.3)** We’re rounding to the nearest ten. Look at the ones digit: 8. Since $8 \geq 5$, we round UP! The tens digit changes from 7 to 8, so the answer is **15,680**. ✓



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Notes From the Math Gardener

Hi, Math Gardener!

◇ Look at how much you grew! 10 tests is like 10 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.

Jay Daie

Your Math Gardener

PRACTICE TODAY. ACHIEVE TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, boost confidence, and succeed in the classroom and beyond. With 10 full-length practice tests that reflect real test formats, students get the targeted practice they need to master key concepts, improve problem-solving abilities, and achieve their goals.

PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Test Preparation

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Reinforce key Grade 4 math skills and build a solid foundation.



Better Problem Solving

Develop critical thinking and solve problems with confidence.



Test Confidence

Familiarize with test formats and reduce exam stress.



Track Progress

Measure improvement and focus on areas that matter.



Achieve Success

Build the skills and confidence to reach higher goals.

TOPICS COVERED:

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Graphing & Data Analysis
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ And More!



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