

8

South Dakota

Smarter Balanced

GRADE 4

PRACTICE TESTS



1

$2 \times 3 = 6$

3

5

$2 \times 3 = 6$

2

4



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

**COMPREHENSIVE
TEST PREP**

Includes Solutions

8 South Dakota Smarter Balanced Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Eight 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!

Eight steady rounds on the Mount Rushmore State math route

This book gives you eight 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?

Eight tests, 240 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 6–8	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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& answers

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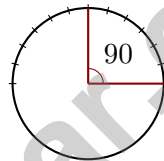
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1) A park ranger counts animals. She counts 6 groups of deer with 12 deer per group, and 7 groups of rabbits with 12 rabbits per group. How many total animals does she count?

- A. 192 animals
 B. 144 animals
 C. 136 animals
 D. 156 animals

2) A container of juice has $\frac{9}{10}$ liter. After serving some drinks, $\frac{4}{10}$ liter is left. How much juice was served?

- A. $\frac{5}{10}$
 B. $\frac{13}{10}$
 C. $\frac{4}{10}$
 D. $\frac{1}{10}$



3)

The angle shown is a right angle with degree tick marks. How many one-degree angles form a right angle?

- A. 45 one-degree angles
 B. 90 one-degree angles
 C. 180 one-degree angles
 D. 360 one-degree angles

4) Maria draws an angle that is slightly more than 90° . What type of angle did she draw?

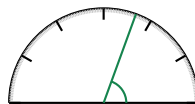
- A. An acute angle
 B. A right angle
 C. An obtuse angle
 D. A straight angle



- 5) Two angles of measures 15° and 75° are combined. What is the total angle?
- A. 60° C. 90°
 B. 75° D. 100°
- 6) Three students timed their sprints. Riley: 0.47 seconds. Jordan: 0.74 seconds. Casey: 0.44 seconds. Who was fastest (smallest time)?
- A. Riley (0.47 s) C. Casey (0.44 s)
 B. Jordan (0.74 s) D. Riley and Jordan tied
- 7) Which number sentence matches the number line showing three equal hops from 0 to $\frac{3}{5}$?



- A. $3 \times \frac{1}{6} = \frac{3}{6}$ C. $\frac{3}{5} + \frac{1}{5} = \frac{4}{5}$
 B. $3 \times \frac{1}{5} = \frac{3}{5}$ D. $\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$
- 8) Which statement correctly matches the equation $42 = 6 \times 7$?
- A. 42 is 6 less than 7 C. 42 is 6 times as many as 7
 B. 42 is 7 more than 6 D. 42 equals 6 plus 7



- 9) What is the measure of the angle shown, rounded to the nearest 10 degrees?
- A. 70 degrees C. 80 degrees
 B. 60 degrees D. 90 degrees



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10) Which of these is NOT equivalent to 0.3?

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

B. 0.30

C. $\frac{30}{100}$

D. $\frac{3}{100}$

11) Isabella has 11 colored pencils. Her art teacher has 4 times as many colored pencils. How many colored pencils does her teacher have?

A. 15

B. 30

C. 40

D. 44

12) Which fraction is equivalent to $\frac{10}{12}$ and in simplest form?

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

B. $\frac{5}{12}$

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

D. $\frac{20}{24}$

13) A rectangle has an area of 45 square centimeters. The length is 9 centimeters. What is the width?

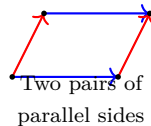
A. 4 cm

B. 6 cm

C. 7 cm

D. 5 cm

14) Which shape always has two pairs of parallel sides?



A. Trapezoid

B. Triangle

C. Parallelogram

D. Pentagon



1) Which of the following is NOT a type of angle based on size?

A. Acute

C. Obtuse

B. Right

D. Vertex

2) Add: $41,234 + 38,765 = ?$

A. 79,999

C. 79,989

B. 80,099

D. 80,199

3) What is $2\frac{5}{10} + 1\frac{3}{10} + 1\frac{1}{10}$?

A. $4\frac{8}{10}$

C. $5\frac{0}{10}$

B. $4\frac{9}{10}$

D. $5\frac{1}{10}$

4) Find $\frac{3}{4} + \frac{2}{4}$ as a mixed number.

5) The letter M has how many lines of symmetry?

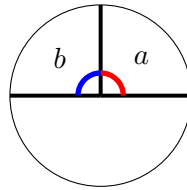
A. 0

C. 2

B. 1

D. 3

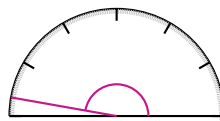




6)

Angles a and b are marked in the diagram. What is the sum $a + b$?

- A. 90°
 C. 270°
 B. 180°
 D. 360°



7)

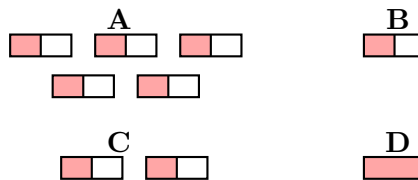
This angle is very close to a straight line. What is the most likely measure?

- A. 150 degrees
 C. 170 degrees
 B. 160 degrees
 D. 180 degrees

8) What is the sum: $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$?

- A. $\frac{5}{8}$
 C. $\frac{1}{8}$
 B. $\frac{5}{40}$
 D. $\frac{1}{5}$

9) Which bar model represents $5 \times \frac{1}{2}$?



- A. Top-left picture
 C. Bottom-left picture
 B. Top-right picture
 D. Bottom-right picture



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1) What decimal has 3 tenths and 7 hundredths?

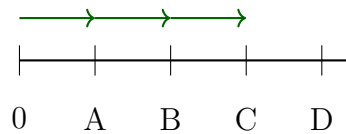
A. 0.73

C. 3.7

B. 0.37

D. 0.307

2) Sam has a number line with hops of $\frac{1}{4}$. Which point represents $3 \times \frac{1}{4}$?



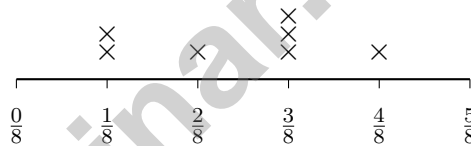
A. Point A

C. Point C

B. Point B

D. Point D

3) Here is a line plot showing sticker lengths (in inches):



What is the difference in inches between the longest and shortest stickers?

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

C. $\frac{3}{8}$ inch

B. $\frac{2}{8}$ inch

D. $\frac{4}{8}$ inch

4) A water bottle holds 750 milliliters. How much water is in 2 bottles?

A. 375 mL

C. 1,500 mL

B. 750 mL

D. 2,250 mL



5) A recipe calls for $\frac{1}{4}$ cup of sugar. If Miguel triples the recipe, how much sugar does he need?

A. $\frac{1}{12}$ cup

B. $\frac{1}{3}$ cup

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

D. $1\frac{1}{4}$ cups

6) What decimal is read as “zero point nineteen”?

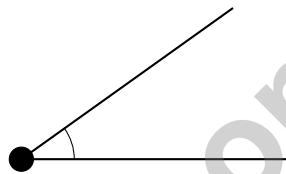
A. 19

B. 0.19

C. 1.9

D. 0.019

7)



Is this angle acute, right, obtuse, or straight?

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

8) Hassan ate $\frac{2}{6}$ of a pizza and Iris ate $\frac{1}{3}$ of an identical pizza. Who ate more, or did they eat the same amount?



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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 D is correct.** (4.OA.3) Three steps! Step 1: deer total: $6 \times 12 = 72$. Step 2: rabbit total: $7 \times 12 = 84$. Step 3: add for grand total: $72 + 84 = 156$ animals.
- Choice A is correct.** (4.NF.3) The container started full and some juice was served. Find how much was served by subtracting what's left from what started: $\frac{9}{10} - \frac{4}{10} = \frac{5}{10}$ liter of juice was served.
- Choice B is correct.** (4.MD.5) The right angle diagram shows a 90° angle, which consists of **90** one-degree angles.
- Choice C is correct.** (4.G.1) When Maria draws an angle just a bit wider than a right angle, she has created an obtuse angle. Any angle between 90° and 180° is obtuse.
- Choice C is correct.** (4.MD.7) These two angles are complementary. Add them: $15^\circ + 75^\circ = 90^\circ$.
- Choice C is correct.** (4.NF.5) Order by time: $0.44 < 0.47 < 0.74$. Smaller time means faster! Casey's 0.44 seconds is the fastest.
- Choice B is correct.** (4.NF.4) The number line shows three equal jumps of $\frac{1}{5}$ each, landing at $\frac{3}{5}$. This matches $3 \times \frac{1}{5} = \frac{3}{5}$.
- Choice C is correct.** (4.OA.1) Read $42 = 6 \times 7$ as "6 groups of 7." That matches "42 is 6 times as many as 7" (choice C). The other choices describe addition, not multiplication.
- Choice A is correct.** (4.MD.6) This angle measures about 70° . When we round to the nearest 10 degrees, it stays at 70° because 70° is right at the mark. The answer is **70** degrees.
- Choice D is correct.** (4.NF.5) Three tenths can be written as 0.3, 0.30, $\frac{3}{10}$, or $\frac{30}{100}$. But $\frac{3}{100} = 0.03$ is only 3 hundredths, so it doesn't match.
- Choice D is correct.** (4.OA.2) "4 times as many" tells us to multiply: $4 \times 11 = 44$ colored pencils.
- Choice A is correct.** (4.NF.1) Divide both numerator and denominator by their GCF, which is 2: $\frac{10}{12} = \frac{10 \div 2}{12 \div 2} = \frac{5}{6}$. Simplest form! (5 and 6 share no common factors.)
- Choice D is correct.** (4.MD.3) From $45 = 9 \times w$: Divide to get $w = 45 \div 9 = 5$ cm.
- Choice C is correct.** (4.G.2) A parallelogram is defined as a quadrilateral with two pairs of parallel sides. The blue and red arrows in the figure mark these two pairs of parallel sides. The answer is **C**.
- Choice C is correct.** (4.NF.4) Starting at 0, each jump is $\frac{1}{6}$. After 5 jumps, we've moved $5 \times \frac{1}{6} = \frac{5}{6}$ of the way.
- Choice A is correct.** (4.NF.3) Subtract the wholes: $6 - 3 = 3$. Subtract the fractions: $\frac{4}{8} - \frac{2}{8} = \frac{2}{8}$. The difference is **$3\frac{2}{8}$** .
- The correct answer is 2.** (4.NF.4) All 4 pieces, each weighing $\frac{1}{2}$ pound, weigh $4 \times \frac{1}{2} = \frac{4}{2} = 2$ pounds total.
- The correct answer is A, B.** (4.NBT.1) A is true: thousands (1,000) \div hundreds (100) = 10. B is true: hundreds (100) \div tens (10) = 10. C, D, E are false. Answer: A and B. ✓
- Choice C is correct.** (4.OA.4) Build a pyramid: Figure 1 = 1, Figure 2 = $1 + 2 = 3$, Figure 3 = $1 + 2 + 3 = 6$. Figure 5 = $1 + 2 + 3 + 4 + 5 = 15$ circles.
- Choice B is correct.** (4.OA.4) Walk through the factor pairs of 48: 1×48 , 2×24 , 3×16 , 4×12 , 6×8 . Combine both sides: **1, 2, 3, 4, 6, 8, 12, 16, 24, 48** (10 factors). Choice A misses 3 and 16; choice C misses 16; choice D misses 1.
- Choice C is correct.** (4.MD.5) A right angle has a perfect square corner, like the corner of a piece of paper.
- Choice A is correct.** (4.NBT.3) We're rounding to the nearest ten. Look at the ones digit: 5. Since $5 \geq 5$, we round UP! The tens digit goes from 0 to 1, giving us **6,010**. ✓
- Choice A is correct.** (4.NBT.5) Split both: $24 = 20 + 4$ and $19 = 10 + 9$. This creates four areas: $20 \times 10 = 200$, $4 \times 10 = 40$, $20 \times 9 = 180$, $4 \times 9 = 36$. Choice A is correct.
- The correct answer is 18 oz.** (4.MD.2) The baker has 50 ounces and uses 32 ounces. Subtract: $50 - 32 = 18$ ounces. There are **18** ounces left.
- Choice A is correct.** (4.G.3) This trapezoid has two slanted sides of different lengths (legs), making it lopsided. No fold line can create two matching halves. The answer is **0** lines of symmetry.
- The correct answer is $\frac{4}{8}$.** (4.NF.3) We need numerators to sum to 6. We have 2, so the missing piece is $6 - 2 = 4$ eighths: $\frac{4}{8}$ ✓.



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Cheer Squad Final Pep Talk

Hi, Math Star!

◇ 8 practice tests! That's a LOT of work, and you did it ALL. I am cheering so loud right now. You earned every clap and every cheer! ◇

★ **Cheerleader truth:** confidence is built by showing up. You showed up 8 times. That's real confidence. It is not pretend! ★

Cheer Roll Call

- **Effort:** 100% YOU SHOWED UP!
- **Heart:** BIG!
- **Skills:** STRONG and growing!
- **Spirit:** BRIGHT!

Cheer tip: on test day, be your own cheerleader. Whisper to yourself: "I can do this. I practiced." Tiny cheers make a big difference!

If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Math Cheerleader

8 PRACTICE TESTS. PREPARE. PRACTICE. SUCCEED!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master essential concepts, and boost confidence for success in the classroom and beyond.

Featuring 8 full-length practice tests, a variety of question types, and detailed answer explanations, this book provides the practice and support students need to improve accuracy, strengthen problem-solving abilities, and achieve their best.

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

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- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement

★ **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.



Academic Success

Strengthen skills needed for future learning.

TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Multi-Digit Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Geometry & Shapes
- ✓ Measurement & Data
- ✓ Perimeter & Area
- ✓ Word Problems
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- ✓ And More!



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