

9

$$256 \div 8 = 32$$



$$48 \times 7 = 336$$

South Dakota Smarter Balanced

GRADE 4

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



**9 FULL-LENGTH
PRACTICE TESTS**



**STANDARDS-ALIGNED
REVIEW**



**MIXED PRACTICE
BUILD SKILLS & CONFIDENCE**



**ANSWER KEY
FOR ALL TESTS**



$$\frac{3}{4} + \frac{1}{4} = 1$$



$$725 - 358 = 367$$

PREPARE
PRACTICE
SUCCEED
PERFORM

**PRACTICE TODAY.
SUCCEED TOMORROW.**

9 South Dakota Smarter Balanced Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine 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!

Nine steady rounds on the Mount Rushmore State math route

This book gives you nine 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?

Nine tests, 270 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.
Answer Pages	Compact keys and explanations that show why each answer works.

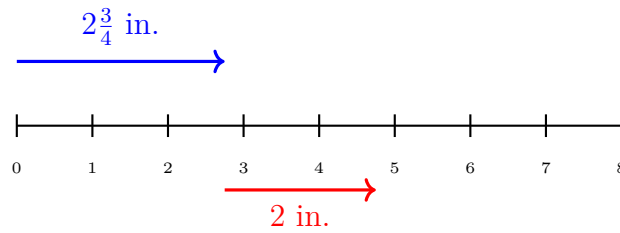
The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



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For more practice
& answers

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1)

A board has two sections. The blue section is $2\frac{3}{4}$ inches and the red section is 2 inches. What is the total length?

- A. $4\frac{1}{4}$ inches C. $4\frac{3}{4}$ inches
 B. $4\frac{2}{4}$ inches D. 5 inches

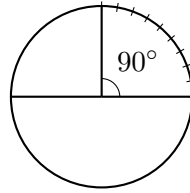
2) Ming has a ribbon that is $\frac{5}{8}$ meter long. She cuts off $\frac{3}{8}$ meter. How much ribbon remains?

- A. $\frac{2}{8}$ meter C. $\frac{3}{8}$ meter
 B. $\frac{8}{16}$ meter D. $\frac{8}{8}$ meter

3) A rectangular poster is 16 inches long and 10 inches wide. What is the area of the poster?

- A. 26 sq in C. 160 sq in
 B. 52 sq in D. 180 sq in





4)

A circle is divided into sections. The section shown contains 90 one-degree angles. What is the measure of this angle?

- A. 90° C. 180°
 B. 9° D. 45°

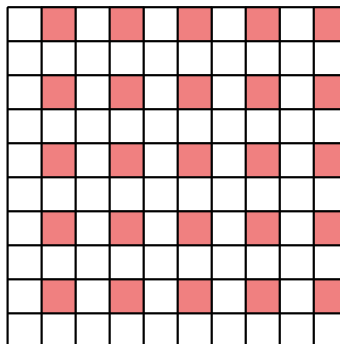
5) Which pair are both factors of 36?

- A. 4 and 8 C. 6 and 9
 B. 6 and 7 D. 8 and 9

6) What is 52×15 ?

- A. 520 C. 650
 B. 830 D. 780

7) How many hundredths are shaded in this grid?



- A. 25 hundredths or 0.25 C. 75 hundredths or 0.75
 B. 50 hundredths or 0.50 D. 100 hundredths or 1.00



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8) Find $2\frac{3}{4} - 1\frac{1}{4}$.

9) Which quadrilateral has four equal sides and four right angles?

 A. Rectangle C. Square B. Rhombus D. Trapezoid10) Noah bought $\frac{8}{10}$ pound of strawberries and $\frac{15}{100}$ pound of blueberries. How many pounds of berries did he buy in total? A. $\frac{23}{110}$ pound C. $\frac{95}{100}$ pound B. $\frac{8}{15}$ pound D. $\frac{23}{100}$ pound11) Add: $54,321 + 45,678 = ?$ A. 99,999 C. 99,989 B. 100,099 D. 99,899

12) Gavin has 6 action figures. His friend Leo has 5 times as many action figures as Gavin. How many action figures does Leo have?



1) Which fraction equals thirty-five hundredths?

- A. $\frac{35}{10}$
 B. $\frac{3}{5}$

- C. $\frac{35}{100}$
 D. $\frac{53}{100}$

2) A juice bottle holds $\frac{4}{5}$ cup. How much juice do 3 bottles hold?

- A. $\frac{4}{15}$ cups
 B. $\frac{7}{5}$ cups

- C. $\frac{12}{5}$ cups or $2\frac{2}{5}$ cups
 D. $\frac{3}{5}$ cups

3) A serving of pasta is $\frac{1}{3}$ pound. How much pasta is in 6 servings?

- A. $\frac{1}{18}$ pound
 B. $\frac{6}{3}$ pounds (or 2 pounds)

- C. $\frac{6}{18}$ pound
 D. $\frac{1}{2}$ pound

4) How should one baseline of the angle be positioned on a protractor for an accurate measurement?

- A. Along any edge of the protractor
 B. Along the straight edge at the 0-degree mark
 C. In the middle of the protractor
 D. It does not matter

5) Compare these two numbers using a place-value chart:

	Thousands	Hundreds	Tens	Ones
Number 1	3	4	2	5
Number 2	3	4	5	0

Which is correct?

- A. $3,450 < 3,425$
 B. $3,425 > 3,450$

- C. $3,425 = 3,450$
 D. $3,425 < 3,450$



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6) What is the missing numerator? $\frac{3}{10} + \frac{?}{100} = \frac{50}{100}$

A. 20

C. 30

B. 47

D. 50

7) Which attribute is true for a square?

A. Four equal sides and four right angles

C. One pair of parallel sides

B. Three angles and three sides

D. Four different side lengths

8) Which decimal is between 0.70 and 0.80?

A. 0.68

C. 0.82

B. 0.75

D. 0.69

9) Round 26,734 to the nearest hundred.

10) Noah used $\frac{5}{6}$ of his paint to paint a fence. Maria used $\frac{3}{4}$ of her paint on a wall. Assuming they started with the same amount, who used more paint?

A. Noah used more

C. They used the same amount

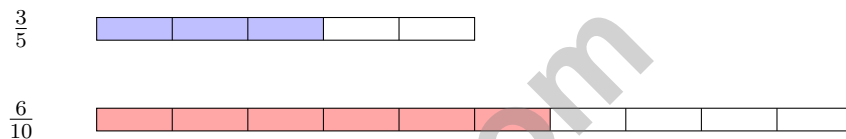
B. Maria used more

D. Cannot determine



- 1) An acute angle measures less than how many degrees?

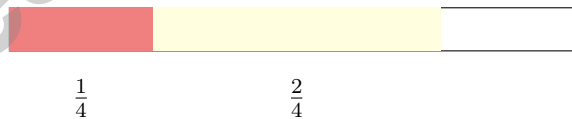
- 2) Two fraction bars are shown below. Both have the same amount shaded. What is true about the denominators?



- A. The denominators are the same C. $\frac{6}{10}$ has a larger denominator
 B. $\frac{3}{5}$ has a larger denominator D. The fractions are not equivalent
- 3) Write $\frac{47}{100}$ as a decimal.

- A. 0.047 C. 4.7
 B. 0.47 D. 47.0

- 4)



A length of rope is $\frac{1}{4}$ red and $\frac{2}{4}$ yellow. The rest is blue. What fraction is blue?

- A. $\frac{1}{4}$ C. $\frac{2}{4}$
 B. $\frac{3}{4}$ D. $\frac{4}{4}$



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& answers

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.3)** Add the wholes: $2 + 2 = 4$. Add the fractions: $\frac{3}{4} + 0 = \frac{3}{4}$. The total length is $4\frac{3}{4}$ inches.
- Choice A is correct.** **(4.NF.3)** Ming's ribbon started at $\frac{5}{8}$ meter. She cut off $\frac{3}{8}$ meter, leaving $5 - 3 = 2$ eighths: $\frac{2}{8}$ meter.
- Choice C is correct.** **(4.MD.3)** Poster area = $16 \times 10 = 160$ sq in.
- Choice A is correct.** **(4.MD.5)** The sector is marked with 90 one-degree angle tick marks, so its measure is 90° .
- Choice C is correct.** **(4.OA.4)** For both numbers to be factors, both must divide 36 evenly. Check: $36 \div 6 = 6$ ✓ and $36 \div 9 = 4$ ✓. Choice A: 8 doesn't divide 36 ($36 \div 8 = 4$ r 4); choice B: 7 doesn't divide 36; choice D: 8 doesn't divide 36.
- Choice D is correct.** **(4.NBT.5)** Break 15 into parts: $52 \times (10 + 5) = 520 + 260 = 780$.
- Choice A is correct.** **(4.NF.5)** The hundredths grid is shaded in a checkered pattern. Count the shaded squares: 25 out of 100 means $\frac{25}{100} = 0.25$.
- The correct answer is $1\frac{1}{2}$.** **(4.NF.3)** Subtract the mixed numbers: $2\frac{3}{4} - 1\frac{1}{4} = 1\frac{2}{4}$, which simplifies to $1\frac{1}{2}$.
- Choice C is correct.** **(4.G.2)** A square combines two key properties: four equal sides (like a rhombus) and four right angles (like a rectangle). This makes a square a special quadrilateral. The answer is **C**.
- Choice C is correct.** **(4.NF.5)** Convert the strawberries: $\frac{8}{10} = \frac{80}{100}$. Now add: $\frac{80}{100} + \frac{15}{100} = \frac{95}{100}$ pound.
- Choice A is correct.** **(4.NBT.4)** Add by place value: ones $1 + 8 = 9$, tens $2 + 7 = 9$, hundreds $3 + 6 = 9$, thousands $4 + 5 = 9$, ten-thousands $5 + 4 = 9$. The sum is **99,999**.
- The correct answer is 30.** **(4.OA.2)** "5 times as many" means multiply: $5 \times 6 = 30$ action figures.
- Choice C is correct.** **(4.NF.4)** Let's check: A: $1 \times \frac{1}{8} = \frac{1}{8}$ ✓. B: $4 \times \frac{1}{6} = \frac{4}{6}$ ✓. C: $5 \times \frac{1}{5} = \frac{5}{5} = 1$, not $\frac{5}{10}$ —incorrect! D: $2 \times \frac{1}{3} = \frac{2}{3}$ ✓.
- The correct answer is A, D.** **(4.NF.1)** Simplify $\frac{2}{4}$: divide both by 2 to get $\frac{1}{2}$ (option A) ✓ Also, $\frac{2}{4} = \frac{2 \times 2}{4 \times 2} = \frac{4}{8}$ (option D) ✓ The other options (B, C, E) are not equivalent—they don't equal $\frac{1}{2}$.
- Choice A is correct.** **(4.NF.3)** The red arrow shows the first jump ($\frac{4}{12}$), the blue arrow shows the second jump ($\frac{3}{12}$). Together: $4 + 3 = 7$, so we reach $\frac{7}{12}$ ✓.
- Choice B is correct.** **(4.MD.5)** The vertex is the point where the two rays of an angle meet.
- Choice C is correct.** **(4.MD.1)** Since 1 yard = 3 feet, multiply: $100 \times 3 = 300$ feet. The answer is **300** feet.
- Choice D is correct.** **(4.NF.3)** The garden has 5 equal rows, and plants are in 3 of them. So the fraction with plants is $\frac{3}{5}$, which breaks into unit fractions: $\frac{3}{5} = \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$.
- Choice A is correct.** **(4.NF.4)** For $3 \times \frac{1}{4}$, we need 3 copies of $\frac{1}{4}$, which equals $\frac{3}{4}$. Picture A shows one whole divided into 4 parts with 3 parts shaded. This is Picture A.
- Choice A is correct.** **(4.NF.4)** We have 2 strings that are each $\frac{2}{8}$ meter long. We multiply: $2 \times \frac{2}{8} = \frac{4}{8}$, which simplifies to $\frac{1}{2}$ meter.
- Choice A is correct.** **(4.NF.5)** The number line from 0.30 to 0.35 divides into 5 equal steps. The mark is one step from 0.30, so it lands on 0.31.
- Choice D is correct.** **(4.MD.6)** The ray points to the 160° mark, which is very close to the 180° straight angle. At 160° , this is a wide obtuse angle. The answer is **160** degrees.
- Choice C is correct.** **(4.NBT.6)** Divide: $27 \div 6 = 4$ r3, bring down the 3 to get $33 \div 6 = 5$ r3, bring down the 6 to get $36 \div 6 = 6$. Each shirt gets **456** buttons.
- Choice B is correct.** **(4.G.1)** A line segment is just a straight connection between two points with no arrows and no extra stretching. Diagram B shows this perfectly — clean and simple.
- Choice A is correct.** **(4.MD.5)** The shaded region spans from 45° to 225° , which is 180° or $\frac{1}{2}$ of the full circle.
- Choice C is correct.** **(4.NBT.1)** Read the value backwards: $600 = 6 \times 100$. A digit's value equals digit \times place value. Since the place value here is 100, the digit must be in the hundreds place. *Quick check:* the places are ones ($\times 1$), tens ($\times 10$), hundreds ($\times 100$), thousands ($\times 1,000$). ✓



A Note From Your Math Friend

Hi, Math Star!

◇ Wow! You finished 9 full practice tests. That is a LOT of math problems. You worked hard, and your brain got stronger every time. ◇

★ **Here is a big idea:** mistakes are okay! Every time you got something wrong, you got smarter. Through 9 tests, you learned that trying is the most important thing. ★

Look What You Did!

- **Hard Worker:** You did not give up!
- **Smart Thinker:** You used your math tools.
- **Brave Learner:** You tried hard problems.
- **Test Ready:** You feel proud and prepared.

Big tip for test day: take your time. Read each problem twice. Show your work. Check your answer. You can do this!

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

Jay Daie

Your Math Friend

PRACTICE TODAY. ACHIEVE TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students strengthen essential math skills, build confidence, and develop the problem-solving abilities needed for classroom success and test readiness.

With 9 full-length practice tests, students gain repeated exposure to important Grade 4 concepts while learning how to approach questions with accuracy, confidence, and strong mathematical thinking.

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PERFECT FOR:

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SUCCESS FOR LIFE.**

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- ✓ Measurement & Data
- ✓ Perimeter & Area
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