

5 South Dakota Smarter Balanced Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Five 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.

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Welcome, South Dakota Math Explorer!

Five steady rounds on the Mount Rushmore State math route

This book gives you five 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?

Five tests, 150 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 3–5	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 3–5	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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1) Sam measured ribbon lengths in fourths of a meter. She got: $\frac{2}{4}$, $\frac{3}{4}$, $\frac{2}{4}$, $\frac{4}{4}$, $\frac{3}{4}$, $\frac{3}{4}$. When plotted, which measurement has the most X marks?

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

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

B. $\frac{3}{4}$ m

D. 1 m

2) Which number is divisible by 10?

A. 45

C. 70

B. 68

D. 82

3) The population of a town is 42,567. Round this number to the nearest thousand.

4) In the number 5,309, what is the value of the 3?

A. 3

C. 300

B. 30

D. 3,000

5) A baker made 36 muffins. This is 9 times as many as yesterday. How many muffins did the baker make yesterday?

A. 45

C. 324

B. 27

D. 4



6) $\frac{4}{5}$ can be written as the sum of four unit fractions:

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

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

C. $\frac{1}{5} + \frac{2}{5} + \frac{1}{5} + \frac{1}{5}$

D. $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{2}{5}$

7) A pattern is: 1, 4, 9, 16, 25, ... What is the next term?

A. 30

B. 35

C. 36

D. 40

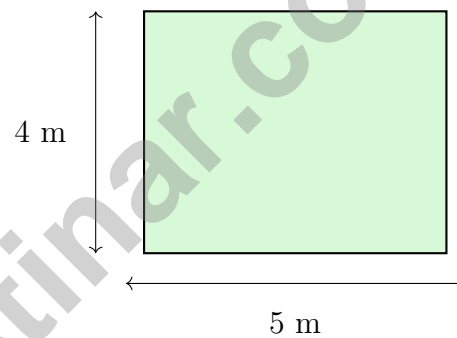
8) What is 9×289 ?

A. 2501

B. 2801

C. 2401

D. 2601



9)

What is the area of the shaded rectangle above?

A. 9 sq m

B. 18 sq m

C. 20 sq m

D. 25 sq m



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10) Line segment PQ and line segment QP are:

- A. Different segments C. Perpendicular
 B. The same segment D. Parallel

11) Add: $6,234 + 3,456 = ?$

12) Ava eats 3 of 8 equal pizza slices. What fraction of the pizza did she eat?

13) A school starts the day at 9:00 a.m. Morning lessons last 2 hours 15 minutes. What time do morning lessons end?

- A. 10:15 a.m. C. 11:45 a.m.
 B. 11:15 a.m. D. 12:15 p.m.

14) A pizza is cut into 6 equal slices. Max ate 2 slices. Another pizza was cut into 3 equal slices, and Cole ate 1 slice. If both pizzas started the same size, did Max and Cole eat equivalent amounts?

- A. Yes, both ate $\frac{1}{3}$ C. No, Max ate more
 B. Yes, both ate $\frac{1}{2}$ D. No, Cole ate more



1) Which statement is true?

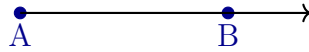
A. $9 \times \frac{1}{9} = 0$

B. $9 \times \frac{1}{9} = 1$

C. $9 \times \frac{1}{9} = \frac{9}{1}$

D. $9 \times \frac{1}{9} = 9$

2) In this diagram, which description best matches the ray shown?

 A. Ray from B through A B. Ray from A through B C. Line segment AB D. Line through A and B

3) What is 3×456 ?

A. 1450

B. 1600

C. 1512

D. 1368

4) Which is a multiplicative comparison?

 A. 10 is 2 times as many as 5 B. 10 is 5 more than 5 C. 10 is 5 less than 15 D. 10 equals 5 plus 5

5) A rectangle has an area of 72 square inches. The length is 9 inches. What is the width?



- 6) How many lines of symmetry does a regular quadrilateral (square) have?
- A. 2 C. 4
 B. 3 D. 6
- 7) Ming has 5 bags of marbles. Each bag has $\frac{3}{10}$ pound of marbles. What is the total weight?
- A. $\frac{5}{30}$ pounds C. $\frac{3}{50}$ pounds
 B. $\frac{15}{10}$ or $1\frac{1}{2}$ pounds D. $\frac{8}{10}$ pounds
- 8) A bag of sugar weighs 2 kilograms. How many grams is this?
- A. 20 C. 2,000
 B. 200 D. 20,000
- 9) An angle is split into two smaller angles. One measures 30° and the other measures 45° . What is the measure of the whole angle?
- A. 15° C. 75°
 B. 65° D. 90°
- 10) The zoo needs to divide 1,456 pounds of animal feed equally among 8 animals. How many pounds does each animal get?
- A. 172 C. 182
 B. 192 D. 188



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- 1) A bakery makes 25 trays of cookies. Each tray holds 28 cookies. How many cookies are made?
- A. 600 cookies C. 750 cookies
 B. 800 cookies D. 700 cookies
- 2) A recipe needs 1 kilogram 200 grams of flour. Ollie measures out 800 grams. How many more grams does he need?
- A. 200 g C. 1,000 g
 B. 400 g D. 1,200 g
- 3) A school has 156 students going on a field trip. Each bus holds 24 students. How many buses do they need to rent to fit all students?
- A. 6 buses C. 5 buses
 B. 8 buses D. 7 buses
- 4) Which equation shows that 24 is 6 times as many as 4?
- A. $24 + 4 = 28$ C. $24 = 6 \times 4$
 B. $24 - 4 = 20$ D. $24 \div 4 = 9$
- 5) Diego collected ant speeds (in eighths of an inch per second). His data: $\frac{1}{8}, \frac{2}{8}, \frac{2}{8}, \frac{1}{8}, \frac{3}{8}, \frac{2}{8}, \frac{1}{8}$. On the line plot, how many X marks are at $\frac{1}{8}$?
- A. 2 C. 4
 B. 3 D. 5



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6) A rectangle is 11 meters long and 9 meters wide. What is its area?

7) A spinner is divided into sections by angles. Three sections measure 50° , 60° , and 70° . What is their combined angle measure?

A. 110°

C. 180°

B. 130°

D. 120°

8) Write $2 \times \frac{1}{3}$ as a fraction.

A. $\frac{1}{6}$

C. $\frac{2}{1}$

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

D. $\frac{3}{2}$

9) Mia watches the hour hand on a clock move from 2 to 5. How many degrees does it move?



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.MD.4) Count the measurements: $\frac{2}{4}$ m appears 2 times, $\frac{3}{4}$ m appears 3 times (the most!), and $\frac{4}{4}$ m appears 1 time. So $\frac{3}{4}$ m has the most X marks.
- Choice C is correct.** (4.OA.4) Divisibility rule for 10: the last digit must be exactly 0. Only 70 ends in 0, so $70 \div 10 = 7$.
- The correct answer is 43,000.** (4.NBT.3) We're rounding to the nearest thousand. Look at the hundreds digit: 5. Since $5 \geq 5$, round UP! The thousands digit changes to 3, giving us **43,000** people. ✓
- Choice C is correct.** (4.NBT.1) The digit 3 is in the hundreds place. Value: $3 \times 100 = 300$ ✓
- Choice D is correct.** (4.OA.1) Here we already know the larger amount (36) and the comparison (9 times). To find the smaller amount, "undo" the multiplication by dividing: $36 \div 9 = 4$. Yesterday the baker made **4** muffins.
- Choice A is correct.** (4.NF.3) A unit fraction always has a numerator of 1. Four copies of $\frac{1}{5}$: $1 + 1 + 1 + 1 = 4$, giving us $\frac{4}{5}$ ✓.
- Choice C is correct.** (4.OA.4) These are perfect squares: $1^2 = 1$, $2^2 = 4$, $3^2 = 9$, $4^2 = 16$, $5^2 = 25$. The next is $6^2 = 36$.
- Choice D is correct.** (4.NBT.5) Decompose 289: $9 \times (200 + 80 + 9) = 1800 + 720 + 81 = 2601$.
- Choice C is correct.** (4.MD.3) From the diagram: length is 5 m and width is 4 m. Area = $5 \times 4 = 20$ sq m.
- Choice B is correct.** (4.G.1) Whether you call it segment PQ or segment QP , you're describing the exact same straight path between the two points. The order doesn't matter.
- The correct answer is 9,690.** (4.NBT.4) Add from right to left: ones $4 + 6 = 10$ (write 0, carry 1), tens $3 + 5 + 1 = 9$, hundreds $2 + 4 = 6$, thousands $6 + 3 = 9$. The sum is **9,690**.
- The correct answer is $\frac{3}{8}$.** (4.NF.3) Ava ate 3 slices out of 8, which is $\frac{3}{8}$. Breaking this into unit fractions: $\frac{1}{8} + \frac{1}{8} + \frac{1}{8}$.
- Choice B is correct.** (4.MD.2) School starts at 9:00 a.m. Add 2 hours 15 minutes: $9:00 + 2:15 = 11:15$ a.m. Morning lessons end at **11:15** a.m.
- Choice A is correct.** (4.NF.1) Max ate $\frac{2}{6}$ of his pizza. Cole ate $\frac{1}{3}$ of his pizza. Simplify: $\frac{2}{6} = \frac{2 \div 2}{6 \div 2} = \frac{1}{3}$. They ate the same amount!
- Choice A is correct.** (4.NF.5) The tenths bar shows 7 tenths = $\frac{70}{100}$. The hundredths grid shows 50 hundredths. Comparing: $\frac{70}{100} > \frac{50}{100}$.
- The correct answer is A, C.** (4.NF.1) Check equivalence: $\frac{2}{4}$ divides to $\frac{1}{2}$ ($\div 2$), and $\frac{4}{8}$ divides to $\frac{1}{2}$ ($\div 4$). The distractors: $\frac{3}{5} > \frac{1}{2}$; $\frac{2}{6} < \frac{1}{2}$; $\frac{2}{5} < \frac{1}{2}$.
- Choice B is correct.** (4.MD.5) The angle is marked from 0° to 30° , so it contains **30** one-degree angles.
- Choice A is correct.** (4.NF.5) Compare the tenths place: $4 < 9$, so $0.49 < 0.94$. The cookie costs less.
- Choice B is correct.** (4.NF.5) The marks divide the line: W is at 0.25 and X is at 0.50. Since 0.45 falls between these two values, it's in the region between W and X.
- Choice A is correct.** (4.NF.4) We multiply the number of candies by the weight of each: $6 \times \frac{1}{8} = \frac{6}{8}$ pound. Simplify $\frac{6}{8}$ to get $\frac{3}{4}$ pound.
- Choice B is correct.** (4.NF.3) The ribbon was cut into two pieces. Piece 1 is $\frac{7}{10}$ meter (dark blue), and Piece 2 is $\frac{2}{10}$ meter (sky blue). Together: $7 + 2 = 9$ tenths, or $\frac{9}{10}$ meter.
- Choice B is correct.** (4.NF.4) Each piece is $\frac{1}{8}$ meter long. With 5 pieces, the total length is $5 \times \frac{1}{8} = \frac{5}{8}$ meter.
- Choice B is correct.** (4.NF.4) Adding three eighths together: $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} = 3 \times \frac{1}{8} = \frac{3}{8}$.
- Choice A is correct.** (4.MD.7) The two ribbons meet at a vertex and form an angle. Add them: $39^\circ + 51^\circ = 90^\circ$.
- Choice C is correct.** (4.OA.3) Follow the flow chart! Step 1: $72 \div 8 = 9$ apples in each basket. Step 2: add 4 more to each basket: $9 + 4 = 13$ apples per basket now.
- Choice D is correct.** (4.NBT.6) Divide: $15 \div 7 = 2$ r1, bring down the 1 to get $11 \div 7 = 1$ r4, bring down the 2 to get $42 \div 7 = 6$. Each charity receives **\$216**.



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Captain's Log

Ahoy, Math Sailor!

◇ You sailed through 5 full tests. Some waters were calm. Some waters were rough. You kept your boat steady the whole way. ◇

★ **Captain's truth:** good sailors stay calm. They use the wind. They check the map. You did all those things on every test. ★

Sailor's Skills

- **Steady Hand:** You stay calm even when problems are tricky.
- **Map Skills:** You read each problem carefully.
- **Brave Spirit:** You believe in yourself.
- **Safe Harbor:** You finish what you start.

Captain's tip: on test day, sail steady. Trust the map you built through 5 practice tests. You will reach safe harbor!

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

Jay Daie

Your Math Captain

5 PRACTICE TESTS. BUILD SKILLS. BOOST CONFIDENCE!

This **Grade 4 Math Practice Tests** book is designed to help students master essential math concepts, improve problem-solving skills, and build the confidence they need to excel.

With 5 full-length practice tests, a variety of question types, and detailed answer explanations, students get the practice they need to understand math, strengthen critical thinking, and perform their best on test day and beyond.

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- ✓ Independent Learning
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- ✓ Confidence Building

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Better Problem Solving

Develop logical thinking and effective solution strategies.



Test Confidence

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Measure growth across multiple practice tests.



Master Key Concepts

Reinforce important skills aligned with grade-level standards.



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 & Equivalent Fractions
- ✓ Decimals
- ✓ Geometry & Measurement
- ✓ Perimeter & Area
- ✓ Data, Graphs & Line Plots
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Mixed Question Types



Answer Key Included

A+