

9

South Dakota Smarter Balanced

GRADE

6

MATH

PRACTICE TESTS

Standards-Aligned Review
Mixed Practice & Answer Key



9 PRINTED TESTS

Realistic practice to build confidence and mastery



DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



BUILD CONFIDENCE

Strengthen problem solving and test-taking skills



9 PRINTED TESTS
+2 ONLINE TESTS

Use these two additional online practice tests for extra review after the printed tests in this book.

**PRACTICE TODAY.
SUCCEED TOMORROW.**



PRACTICE



REVIEW



SUCCEED

9 South Dakota Smarter Balanced Grade 6 Math Practice Tests

Standards-Aligned Prairie-And-Ridge Review for Smarter Balanced Assessment Consortium

$436 + 289$ $A = 24$

1 2 3 4 5 6 7 8 9

7×8 $\frac{5}{6}$

complete South Dakota practice rounds

Nine complete 40-question Grade 6 practice rounds for Smarter Balanced, built for prairie-and-ridge review with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, South Dakota Math Explorer!

Nine focused rounds using prairie-and-ridge review

This book gives you nine full Grade 6 practice tests for Smarter Balanced. Each round uses open prairie, carved hills, and steady problem checks as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your South Dakota Practice Promise

Use wide-open thinking: mark what matters, solve in order, and check if the answer is reasonable.

Read

Plan

Check

How to Use This Book

A nine-session routine for prairie-and-ridge review

1. **Work in order.** Take one 40-question test at a time in a quiet place.
2. **Preview the skills.** Scan the quick review pages before beginning the first round.
3. **Correct actively.** Retry missed items before reading the full explanation.
4. **Mark confidence.** Put a small star beside problems where your plan felt strong.
5. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.

South Dakota review rhythm: Complete a round, review the hard hills, and start the next test with a clearer plan.



What Is Inside?

Nine Smarter Balanced tests, 360 questions, and a full review path

| Part | What You Will Practice |
|--------------|--|
| Tests 1–3 | Foundation rounds for ratios, rational numbers, operations, and careful reading. |
| Tests 4–6 | Skill-building rounds with expressions, equations, geometry, data, and problem models. |
| Tests 7–9 | Final stamina rounds for mixed review, neat work, and flexible strategy choices. |
| Answer Pages | Compact keys and explanations that show why each answer works. |

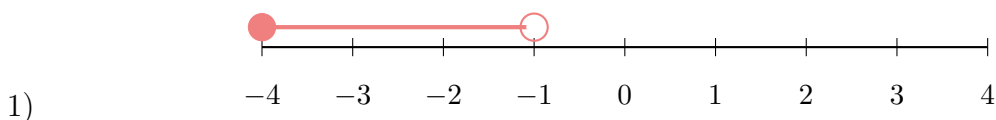
The tests are mixed on purpose. Prairie-and-ridge review means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!
For more practice
& answers

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Which inequality matches the number line above?

- A. $-4 \leq x < -1$ C. $-4 < x < -1$
 B. $-4 < x \leq -1$ D. $-4 \leq x \leq -1$
- 2) The highest point in a state has an elevation of 6000 feet. The lowest point has an elevation of -500 feet. How many feet higher is the highest point than the lowest point?
- A. 5500 feet C. 5000 feet
 B. 6500 feet D. 6000 feet
- 3) A student wrote: "If $|-12| = 12$, then $|12| = -12$." Is this reasoning correct?
- A. Yes, they are opposite results D. No, absolute value is always non-negative; $|12| = 12$
 B. Cannot be determined
 C. Yes, one is positive and one is negative
- 4) Which statement is false?
- A. $-9 < -5$ C. $-0.5 < 0.5$
 B. $-2.5 > -3.5$ D. $-7 > -3$



5) A drawing shows an object as 6 cm long. The actual object is 3 meters long. What is the scale of the drawing?

A. 1 cm = 0.5 m

C. 6 cm = 3 m

B. 1 cm = 5 m

D. 1 cm = 50 m

Quotient Estimation: $4,756 \div 26$

Round 4,756 \rightarrow 4,800

Round 26 \rightarrow 25

$4,800 \div 25 = 192$

Estimated quotient: \approx **183** (actual closer to 182)

6)

What is $4,756 \div 26$? Which choice is closest to the actual quotient?

A. 180

C. 190

B. 183

D. 200

7) What is the GCF of 32 and 48?

A. 8

C. 24

B. 16

D. 32

8) A student is asked to find a rational number between -0.6 and -0.5 on a number line. Which number does NOT work?

A. $-\frac{11}{20}$ (which is -0.55)

C. $-\frac{9}{16}$ (which is -0.5625)

B. -0.52

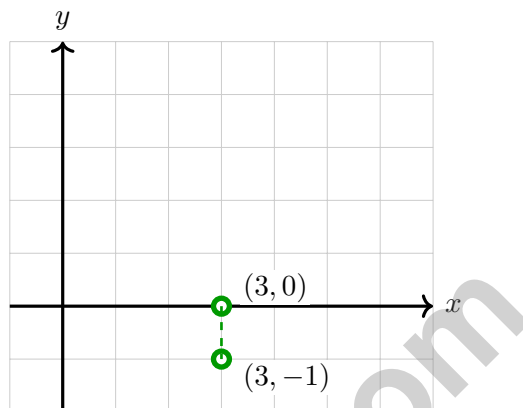
D. $-\frac{1}{2}$ (which is -0.5)



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9) When the point (a, b) is reflected across the y -axis, the new point is:

- A. $(-a, b)$ C. $(-a, -b)$
 B. $(a, -b)$ D. (b, a)



10)

What is the distance between $(3, 0)$ and $(3, -1)$?

- A. 0 units C. 2 units
 B. 1 unit D. 3 units

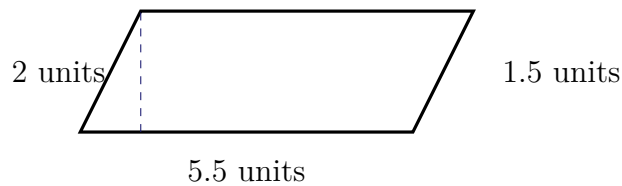
11) Which pair of integers are 5 units apart on a number line?

- A. -8 and -3 C. -4 and 2
 B. 2 and 8 D. 1 and 5

12) A bank account had a balance of $\$-25$ (overdrawn). After a deposit of $\$60$, what is the new balance?

- A. $\$-85$ C. $\$35$
 B. $\$-35$ D. $\$85$





1)

The parallelogram has base 5.5 units and height 2 units. What is the area?

- A. 4.25 sq units C. 11 sq units
 B. 9 sq units D. 22 sq units

2) Evaluate: $(7 - 4)^2 + 5$

- A. 8 C. 21
 B. 14 D. 53

3) A ribbon is 2.4 meters long. You need four pieces of equal length for a craft project. What is the length of each piece?

- A. 0.6 meters C. 9.6 meters
 B. 1.2 meters D. 0.8 meters

4) A bakery sells cookies in packs of 6. On Monday, they sold 36 cookies, and on Tuesday, they sold 42 cookies. How many packs did they sell in total over both days?

- A. 6 packs C. 13 packs
 B. 10 packs D. 78 packs



5) Simplify $9c - 4c + c$.

A. $5c$

C. $8c$

B. $14c$

D. $6c$

6) A builder needs 3,675 nails distributed equally among 25 construction projects. How many nails per project?

A. 147

C. 155

B. 150

D. 160

7) Which decimal is located between -1 and 0 on a number line?

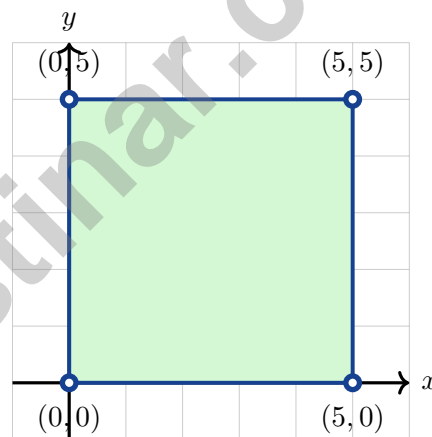
A. -1.5

C. 0.3

B. -0.7

D. 0.8

8)



A square has vertices at $(0,0)$, $(5,0)$, $(5,5)$, and $(0,5)$. What is the perimeter?

A. 15 units

C. 20 units

B. 18 units

D. 25 units



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1) Simplify $4a + 3b + 2a - b$.

A. $6a + 2b$

C. $6a + 4b$

B. $9ab$

D. $7a + 2b$

2) In a standard cross-pattern cube net (center face with one face on each of 4 sides, plus one additional face extending from the top), which two faces are opposite each other when the net is folded into a cube?

A. Center and left

C. Top of the cross and the extension above it

B. Top and bottom of the cross

D. Left and right of the cross

3) Three students propose questions about movies. Which is statistical?

- A: "How long is the movie Frozen?"
- B: "How long are animated movies?"
- C: "When was the movie Frozen released?"

A. Question A

C. Question C

B. Question B

D. None of them

4) Find the median of: 2, 8, 4, 6, 10, 5, 3.

A. 4

C. 6

B. 5

D. 7



South Dakota Smarter Balanced Practice Test Answer Keys

How to use this South Dakota Smarter Balanced answer section with a Grade 6 student:

1. check the answer first, then write one quick reason the choice is correct
2. mark questions to try again, especially the skills that feel connected to prairie-and-ridge review
3. rework the problem before reading the full explanation, using this reminder:
Use wide-open thinking: mark what matters, solve in order, and check if the answer is reasonable.

A calm South Dakota correction routine turns every missed item into useful practice. Complete a round, review the hard hills, and start the next test with a clearer plan.



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South Dakota Practice Test Answers and Explanations

Review the nine printed Smarter Balanced tests with patient, clear, and ready for the next climb habits.

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** **6.EE.8** The filled circle at -4 means “including -4 ” (\geq). The open circle at -1 means “not including -1 ” ($<$). Together: $-4 \leq x < -1$.
- 2) **Choice B is correct.** **6.NS.5** The difference in elevation is $6000 - (-500) = 6000 + 500 = 6500$ feet.
- 3) **Choice D is correct.** **6.SP.4** Error analysis: absolute value of any number (positive or negative) is always non-negative. $|12| = 12$, not -12 .
- 4) **Choice D is correct.** **6.NS.7** A is true ($-9 < -5$). B is true ($-2.5 > -3.5$). C is true ($-0.5 < 0.5$). D is false: $-7 < -3$, not greater.
- 5) **Choice A is correct.** **6.RP.3** Divide: $3 \text{ m} \div 6 \text{ cm} = 0.5 \text{ m per cm}$. Scale is $1 \text{ cm} = 0.5 \text{ m}$.
- 6) **Choice B is correct.** **6.NS.2, 6.NS.3** The estimate is ≈ 192 . The exact answer is $4,756 \div 26 = 182$ remainder 24, which rounds to 183 as the closest choice.
- 7) **Choice B is correct.** **6.NS.4** Common factors shared by 32 and 48 are 1, 2, 4, 8, and 16; the greatest is 16. (You can also peel out matching prime factors: both have four factors of 2 in common.)
- 8) **Choice D is correct.** **6.SP.4** To be between -0.6 and -0.5 , a number must satisfy $-0.6 < x < -0.5$. The value -0.5 is the endpoint, not strictly between the two values.
- 9) **Choice A is correct.** **6.NS.8** Reflecting across the y -axis flips the x -coordinate to its opposite, giving $(-a, b)$.
- 10) **Choice B is correct.** **6.NS.8** Same x -coordinate (3): $|0 - (-1)| = |0 + 1| = 1$ unit.
- 11) **Choice A is correct.** **6.NS.3** The distance between -8 and -3 is $|-3 - (-8)| = |5| = 5$ units.
- 12) **Choice C is correct.** **6.EE.7** Adding a deposit to an overdrawn balance: $-25 + 60 = \$35$.
- 13) **Choice C is correct.** **6.EE.3** Substitute $p = 5$: $\frac{6+2(5)}{4} = \frac{6+10}{4} = \frac{16}{4} = 4$.
- 14) **Choice A is correct.** **6.EE.5** Subtract 9 from both sides: $x = 16 - 9 = 7$.
- 15) **The correct answer is 12.** **6.RP.3** Divide: $96 \text{ fl oz} \div 8 \text{ fl oz/cup} = 12$ cups.
- 16) **Choice C is correct.** **6.EE.8** “More than 80%” means strictly greater than 80, so the inequality is $s > 80$ (not \geq).
- 17) **Choice B is correct.** **6.G.1** $A = \frac{1}{2} \times 13 \times 6 = 39 \text{ m}^2$.
- 18) **Choice D is correct.** **6.RP.1** Circumference $C = \pi d \approx 3.14 \times 8 = 25.12$ meters.
- 19) **Choice D is correct.** **6.SP.2** The population is the entire group being studied. The 12 players are a sample from the full population of all basketball players in the league.
- 20) **The correct answer is Plan X shows a proportional relationship, and it is represented by $e = 20h$.** **6.EE.9** Statement A is correct: Plan X has equation $e = 20h$, so it is proportional. Statement C matches the equation for Plan X. Plan Y has equation $e = 100 + 10h$, so it is not proportional and its graph does not pass through the origin. After 10 hours, both plans pay \$200, so D is false.
- 21) **Choice B is correct.** **6.RP.1** When the median is closer to Q_1 , the upper half of the data (Q_3 to median to Q_1) spreads out more, indicating a right skew. This means there are higher values pulling the distribution rightward.
- 22) **Choice A is correct.** **6.NS.3** Total socks = 10. Black socks = 4. Probability = $\frac{4}{10} = 0.4$.
- 23) **Choice A is correct.** **6.NS.3** $6 \times 8 = 48$. We have $2 + 1 = 3$ decimal places total, so 0.048 is correct.
- 24) **Choice A is correct.** **6.EE.3** Left ribbon: $3(5 + 7) = 36$. Right ribbon: $2(5 + 7) = 24$. Stack them openly: $3(5 + 7) + 2(5 + 7) = 60$. Option B subtracts instead of adds; option C skips half the rectangles; option D wrongly multiplies inside the parentheses.
- 25) **Choice D is correct.** **6.EE.3** “The quotient of 18 and 2” is $\frac{18}{2}$. “The difference of $\frac{18}{2}$ and w ” means $\frac{18}{2} - w$.



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For more practice
& answers

Hi, Brave Explorer!

◇ What a trip! You explored 9 full tests. You went to many math places: multiplication, fractions, area, time, and more. ◇

★ **Smart explorers know:** every trip teaches something. Through 9 tests, you learned a lot. You are a stronger math explorer now. ★

Your Explorer Tools

- **Map Reading:** You read problems carefully.
- **Trail Skills:** You take steps in the right order.
- **Backpack:** You have many math tools.
- **Brave Heart:** You explore even hard problems.

Explorer tip: on test day, use the tools you packed. You have the skills. You are ready!

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

Jay Daie

Your Math Trail Guide

PRACTICE MORE. ACHIEVE MORE.

This **Grade 6 Math Practice Tests** book is designed to help students strengthen their math skills, master important concepts, and build the confidence they need to excel on any test.

With 9 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, develop problem-solving abilities, and reach their full potential.

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

PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Building Confidence



**PRACTICE TODAY.
SUCCEED 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.



Deeper Understanding

Reinforce key math concepts aligned with standards.



Test Confidence

Get familiar with test formats and improve accuracy.



Achieve Success

Build confidence and perform your best on test day.

TOPICS COVERED

- ✓ Ratios & Rates
- ✓ The Number System
- ✓ Expressions & Equations
- ✓ Geometry
- ✓ Fractions & Decimals
- ✓ Percents
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ And More!



2 ONLINE TESTS

Extra online practice to reinforce learning and build confidence.

MORE PRACTICE. GREATER RESULTS.

Give your child the tools needed to develop strong math skills, confidence, and a positive attitude toward learning.



9 PRINTED
PRACTICE TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS