

9

Nebraska NSCAS Growth

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 Nebraska NSCAS Growth Grade 6 Math Practice Tests

Standards-Aligned Plains-Ready Reasoning for Nebraska Student-Centered Assessment System



Nine complete 40-question Grade 6 practice rounds for NSCAS Growth, built for plains-ready reasoning with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

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Welcome, Nebraska Math Explorer!

Nine focused rounds using plains-ready reasoning

This book gives you nine full Grade 6 practice tests for NSCAS Growth. Each round uses straight roads, open fields, and clean calculation habits as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your Nebraska Practice Promise

Keep each step in view: organize facts, solve carefully, and check for a reasonable answer.

Read

Plan

Check

How to Use This Book

A nine-session routine for plains-ready reasoning

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

Nebraska review rhythm: Use each test as a checkpoint, then turn the growth log into the next practice plan.



What Is Inside?

Nine NSCAS Growth 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. Plains-ready reasoning 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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1) Which list shows the numbers in order from least to greatest?

A. $-3, -0.5, 1, 2.5$

C. $1, -0.5, 2.5, -3$

B. $-0.5, -3, 2.5, 1$

D. $2.5, 1, -0.5, -3$

2) Convert $\frac{3}{8}$ to a percent.

3) Which statement is true?

A. $-10 < -5$

C. $-3 > -8$

B. $-5 > 0$

D. $0 < -1$

4) 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

5) What is the prime factorization of 50?

A. 2×25

C. 5×10

B. 2×5^2

D. 50



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6) If a \$200 purchase has a \$30 discount applied, what is the percent discount?

7) Factor $27 + 18$ using the GCF.

A. $3(9 + 6)$

C. $6(4.5 + 3)$

B. $9(3 + 2)$

D. $18(2 + 1)$

8) Sofia has assets totaling \$1500 (savings, laptop, jewelry). She owes \$200 in debt. What is her net worth?

9) What is $|-5| + |-3| - |2|$?

A. -6

C. 6

B. 0

D. 10

10) Which comparison is true?

A. $-2.3 > 0.5$

C. $\frac{3}{4} > 2$

B. $\frac{1}{2} < -\frac{1}{2}$

D. $-0.8 < -0.3$

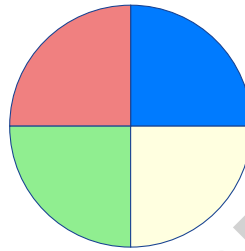


- 5) A runner's splits for three legs: 12.4 s, 11.8 s, and 13.2 s. What is the total time?
- A. 35.4 s C. 36.4 s
 B. 37.4 s D. 38.0 s
- 6) If a point has coordinates (p, q) where $p > 0$ and $q < 0$, in which quadrant(s) could it be located?
- A. Quadrant I or III C. Quadrant I only
 B. Quadrant II or IV D. Quadrant IV only
- 7) If the area of a triangle is 56 cm^2 and the height is 7 cm, what is the base?
- A. 8 cm C. 28 cm
 B. 16 cm D. 56 cm
- 8) Compare -0.2 and -0.02 . Which is greater?
- A. -0.2 C. They are equal
 B. Cannot compare D. -0.02
- 9) An elevator is at floor -8 (basement level). It rises 15 floors. What floor does it reach?
- A. Floor -23 C. Floor 7
 B. Floor -7 D. Floor 23
- 10) The temperature drops by 4° each hour for 3 hours. What is the total change in temperature?
- A. 12° C. 7°
 B. -12° D. -7°



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- 1) A soccer team trains together. They cover 12 miles in $\frac{5}{2}$ hours. What is their unit rate in miles per hour?
- A. 2.4 mph C. 4.0 mph
 B. 3.0 mph D. 4.8 mph



- 2) If a circle graph is divided into 4 equal sections, how many degrees is each central angle?
- A. 90° C. 60°
 B. 72° D. 120°
- 3) A circle has an approximate area of 78.5 cm^2 . If $\pi \approx 3.14$, what is the radius?
- A. 5 cm C. 12.5 cm
 B. 10 cm D. 25 cm
- 4) A library worker wants to know: "Which book genre do students like best?" To answer this question properly, the worker should:
- A. Ask one student. C. Look at what the librarian prefers.
 B. Survey many students and collect their responses. D. Count the total number of books.



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& answers

Nebraska NSCAS Growth Practice Test Answer Keys

How to use this Nebraska NSCAS Growth 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 plains-ready reasoning
3. rework the problem before reading the full explanation, using this reminder:
Keep each step in view: organize facts, solve carefully, and check for a reasonable answer.

A calm Nebraska correction routine turns every missed item into useful practice. Use each test as a checkpoint, then turn the growth log into the next practice plan.



Nebraska Practice Test Answers and Explanations

Review the nine printed NSCAS Growth tests with steady, organized, and ready for another checkpoint habits.

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** **(6.N.1)** Ordering from smallest (most negative) to largest: $-3 < -0.5 < 1 < 2.5$.
- 2) **The correct answer is 37.5%.** **(6.N.1)** $\frac{3}{8} = 0.375$, and $0.375 \times 100 = 37.5\%$.
- 3) **Choice C is correct.** **(6.G.2)** On a number line, -3 is to the right of -8 , so -3 is greater than -8 . The fewer negative units from zero, the greater the number.
- 4) **Choice A is correct.** **(6.A.1)** $3,675 \div 25 = 147$. Each project receives 147 nails.
- 5) **Choice B is correct.** **(6.G.3)** $50 = 2 \times 25 = 2 \times 5 \times 5 = 2 \times 5^2$. Options A and C use composite numbers; D is not factored.
- 6) **The correct answer is 15%.** **(6.N.1)** Percent discount is $\frac{30}{200} = 0.15 = 15\%$.
- 7) **Choice B is correct.** **(6.A.1)** GCF of 27 and 18 is 9. So $27 + 18 = 9(3 + 2)$. Choice A uses 3 (not the greatest common factor); Choice C includes decimals; Choice D equals 54, not 45.
- 8) **The correct answer is 1300.** **(6.D.1)** Net worth = Assets - Debts = $\$1500 - \$200 = \$1300$.
- 9) **Choice C is correct.** **(6.D.2)** $|-5| = 5$, $|-3| = 3$, $|2| = 2$. So $5 + 3 - 2 = 6$.
- 10) **Choice D is correct.** **(6.G.3)** -0.8 is further left on the number line than -0.3 , so it is less. All other comparisons are false.
- 11) **Choice B is correct.** **(6.N.1)** Starting debt: -75 . Payment of 30: $-75 + 30 = -45$. Remaining debt is \$45.
- 12) **Choice C is correct.** **(6.N.2)** Temperature change is final minus initial: $8 - (-3) = 8 + 3 = 11^\circ \text{C}$ (an increase of 11 degrees).
- 13) **Choice D is correct.** **(6.A.1)** Combine like terms: $(5a + 3a) + (2b + 4b) = 8a + 6b$.
- 14) **Choice C is correct.** **(6.N.1)** $v + 15$ means add \$15 to the original price v .
- 15) **Choice C is correct.** **(6.N.2)** Multiply both sides by 8: $x = 2 \times 8 = 16$.
- 16) **Choice C is correct.** **(6.A.2)** "Less than" directly translates to the $<$ symbol: $d < 5$.
- 17) **Choice B is correct.** **(6.G.1)** Each output is 7 times the input: $1 \rightarrow 7$, $2 \rightarrow 14$, $3 \rightarrow 21$, $4 \rightarrow 28$. The equation is $y = 7x$.
- 18) **The correct answer is A and C are correct.** **(6.D.2)** A: $6 \times 3 = 18$ feet (correct). B: $4 \times 3 = 12$ feet, not 10 (incorrect). C: $21 \div 3 = 7$ inches (correct). D: $9 \div 3 = 3$ inches, not 2 (incorrect). E: $5 \times 3 = 15$ feet, not 16 (incorrect).
- 19) **Choice D is correct.** **(6.R.2)** Length = $6 - 1 = 5$ units; width = $4 - 1 = 3$ units. Area = $5 \times 3 = 15$ square units.
- 20) **Choice C is correct.** **(6.D.1)** Variability (different exercise times) and multiple data sources (many students) are what make it statistical. Context (class, subject) and topic alone do not define a statistical question.
- 21) **Choice A is correct.** **(6.D.2)** Mean = 6, Median = 3. The outlier (20) skews the mean upward. The median (3) is more representative of a typical value in this data set.
- 22) **Choice D is correct.** **(6.G.3)** Left-skewed means the tail points left (low values). Mean (42) $<$ median (48) indicates low-value outliers pulling the mean down. These outliers are students with very short reading times.
- 23) **Choice A is correct.** **(6.N.1)** Five equal sections, one labeled A. Probability = $\frac{1}{5}$.
- 24) **Choice B is correct.** **(6.D.3)** The first fraction stays the same; flip (invert) the second fraction and change divide to multiply.
- 25) **The correct answer is 4320.** **(6.D.2)** Annual savings: 12% of $\$36000 = 0.12 \times 36000 = \4320 .
- 26) **Choice B is correct.** **(6.N.2)** Multiply: $1.5 \times 3 = 4.5$ cups of sugar.
- 27) **Choice C is correct.** **(6.R.2)** Quadrants I, II, and IV have at least one positive coordinate. Only Quadrant III (where both coordinates are negative) does not.
- 28) **Choice B is correct.** **(6.A.1)** Exponent first: $4^2 = 16$. Division next: $18 \div 3 = 6$. Finally add: $6 + 16 = 22$.



Notes From the Math Gardener

Hi, Math Gardener!

◇ Look at how much you grew! 9 tests is like 9 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 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