

4 Nebraska

NSCAS Growth

GRADE
6
MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs

4

**PRINTED
TESTS**



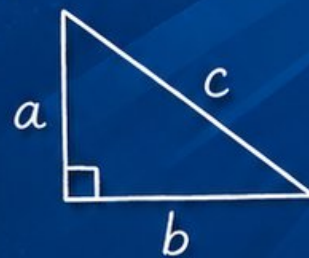
2

**ONLINE
TESTS**



- ✓ Build Confidence
- ✓ Master Key Math Skills
- ✓ Answer Explanations for Every Question
- ✓ Test-Taking Strategies That Work

$$2x + 5 = 21$$
$$x = 8$$



$$\frac{3}{4} + \frac{1}{2} = \frac{5}{4}$$

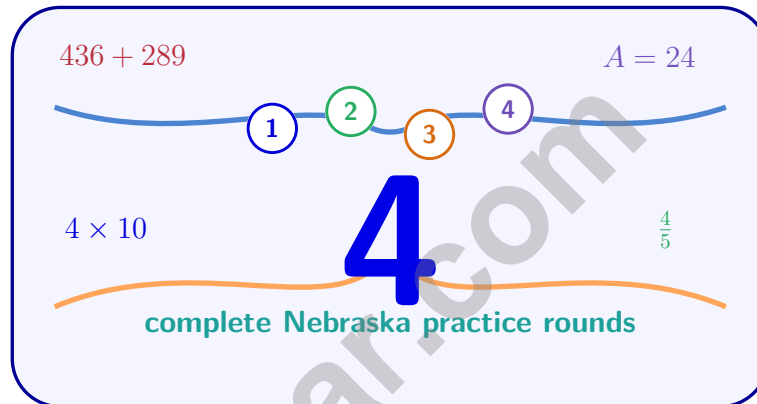


**USE THESE TWO
ADDITIONAL ONLINE
PRACTICE TESTS**

**FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.**

4 Nebraska NSCAS Growth Grade 6 Math Practice Tests

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



Four 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.

Jay Daie and Reza Nazari



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Welcome, Nebraska Math Explorer!

Four focused rounds using plains-ready reasoning

This book gives you four 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 four-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?

Four NSCAS Growth tests, 160 questions, and a full review path

Part	What You Will Practice
Tests 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 3–4	Skill-building and final stamina rounds with expressions, equations, geometry, data, and problem models.
Answer Pages	Compact keys and explanations that show why each answer works.

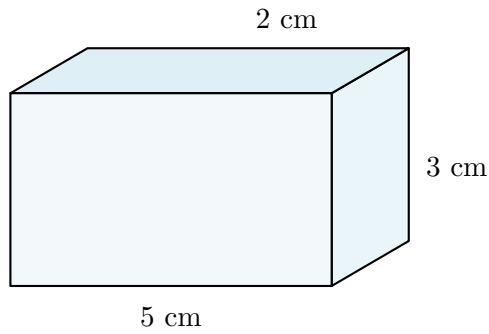
The tests are mixed on purpose. Plains-ready reasoning means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!
For more practice
& answers

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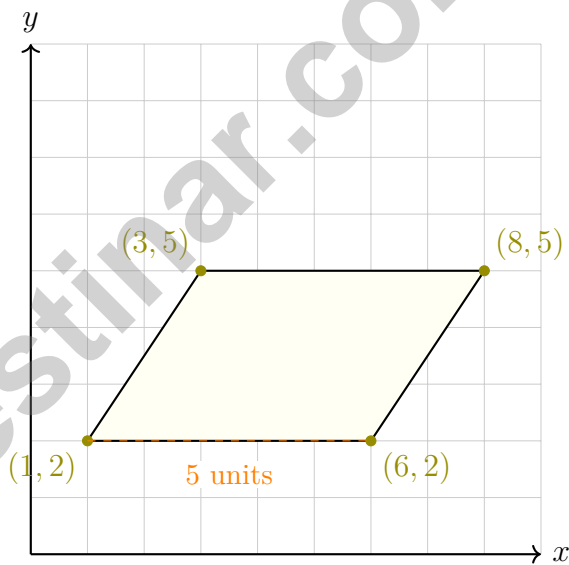
★ Practice Test 1	_____	13
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9)

What is the volume of the rectangular prism?

- A. 10 cm^3
 C. 30 cm^3
 B. 15 cm^3
 D. 50 cm^3



10)

What is the length of the bottom base of this trapezoid?

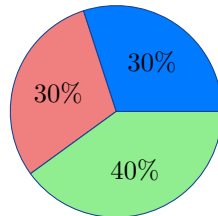
- A. 4 units
 C. 6 units
 B. 5 units
 D. 7 units



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& answers

5) Using the same stem-and-leaf plot from Question 2, what is the maximum height?

- A. 165 cm C. 175 cm
 B. 167 cm D. 177 cm



6)

A circle graph shows the favorite ice cream flavors of 200 people. If 30% prefer vanilla, how many people prefer vanilla?

- A. 60 C. 30
 B. 50 D. 80

7) Which display would be BEST for showing a student's growth in math test scores over an entire school year?

- A. Line graph C. Bar graph of categories
 B. Circle graph D. Pictograph

8) A car travels at a rate of 60 miles per hour. If we express the distance-to-time ratio as 60 : 1, how many miles does the car travel in 5 hours?

- A. 55 miles C. 300 miles
 B. 65 miles D. 12 miles



1) The distance between points $(4, 5)$ and $(4, y)$ is 7 units. The points have the same x -coordinate. What could y be?

A. $y = -3$ or $y = 12$

C. $y = -1$ or $y = 11$

B. $y = -2$ or $y = 12$

D. $y = 0$ or $y = 10$

2) What is $\frac{11}{12} \div \frac{1}{3}$?

A. $\frac{11}{36}$

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

B. $\frac{4}{11}$

D. $\frac{12}{11}$

3) A school orders 4,725 pencils to distribute equally among 15 classrooms. How many pencils does each classroom receive?

A. 315

C. 325

B. 305

D. 335

4) The table shows $h = 2, 4, 6$ and $s = 8, 16, 24$. What is the constant of proportionality?

5) 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



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.



Scan me!
For more practice
& answers

Nebraska Practice Test Answers and Explanations

Review the four 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.G.1)** The equation $e = 12h$ has no constant added, so when $h = 0$ (zero hours), $e = 0$ (zero earnings). The line crosses the vertical axis at earnings = 0.
- 2) **Choice D is correct.** **(6.G.2)** Negative numbers are located to the left of zero on a number line. The number -6 is 6 units to the left of zero.
- 3) **Choice B is correct.** **(6.D.2)** The absolute value $|-17| = 17$ gives the magnitude, or distance from zero, which is 17 degrees.
- 4) **Choice D is correct.** **(6.N.1)** The decimal $0.75 = \frac{75}{100} = \frac{3}{4}$, so $-0.75 = -\frac{3}{4}$.
- 5) **Choice B is correct.** **(6.R.2)** Quadrant II has negative x and positive y . The point $(-3, 5)$ fits this pattern.
- 6) **Choice D is correct.** **(6.G.3)** Numbers are equally far from zero if their absolute values are equal. $|-2| = |2| = 2$. The shown points -3 and 1 are not equally distant.
- 7) **Choice B is correct.** **(6.G.3)** $A = \frac{1}{2} \times 4.5 \times 6 = \frac{1}{2} \times 27 = 13.5 \text{ ft}^2$.
- 8) **Choice C is correct.** **(6.G.3)** Area = $6 \times 1.5 = 9 \text{ yd}^2$.
- 9) **Choice C is correct.** **(6.N.2)** Using $V = L \times W \times H$, we have $V = 5 \times 2 \times 3 = 30 \text{ cm}^3$.
- 10) **Choice B is correct.** **(6.R.2)** The bottom base goes from $(1, 2)$ to $(6, 2)$. Length = $6 - 1 = 5$ units.
- 11) **Choice B is correct.** **(6.R.2)** Width: $6 - 2 = 4$ units. Height: $6 - 2 = 4$ units. Area = $4 \times 4 = 16$ square units.
- 12) **Choice D is correct.** **(6.A.1)** Factors of 9: 1, 3, 9. Factors of 12: 1, 2, 3, 4, 6, 12. Common factors: 1, 3. GCF is 3.
- 13) **Choice B is correct.** **(6.N.2)** To undo division, multiply. This isolates x on the left side.
- 14) **Choice B is correct.** **(6.A.2)** $x \geq 3$ means x is at least 3. $x \leq 7$ means x is at most 7. Only 5 falls in the range $[3, 7]$.
- 15) **Choice B is correct.** **(6.D.1)** Percentage = $\frac{40}{150} \times 100 = 26.7\%$.
- 16) **The correct answer is 25%.** **(6.N.1)** $\frac{50}{200} = \frac{25}{100} = 25\%$ (divide both by 2).
- 17) **Choice B is correct.** **(6.G.1)** The upper whisker extends from Q_3 to max: $29 - 19 = 10$ units long.
- 18) **The correct answer is 60.** **(6.N.1)** Markup is 50% of $\$40 = 0.50 \times 40 = \20 . Selling price is $\$40 + \$20 = \$60$.
- 19) **Choice D is correct.** **(6.D.1)** $I = \$500 \times 0.04 \times 2 = \40 .
- 20) **Choice A is correct.** **(6.N.1)** Option A has a constant m/y ratio: $0.9/1 = 1.8/2 = 2.7/3 = 0.9$. Option B does not: $0.8/1 = 0.8$, $1.7/2 = 0.85$, and $2.5/3 \approx 0.83$.
- 21) **The correct answer is The unit rate is 25 items per hour, and the y-value when x = 1 is 25.** **(6.R.2)** A is correct because $50 \div 2 = 25$ items per hour. D is correct because when $x = 1$, $y = 25$. Choice B is false for a proportional relationship, Choice C should be $y = 25x$, and Choice E is false.
- 22) **Choice A is correct.** **(6.D.2)** Total: $\$30 + \$40 + \$50 = \120 . School supplies: $\frac{\$30}{\$120} = \frac{1}{4} = 25\%$.
- 23) **The correct answer is 9.** **(6.N.1)** Ratio 5 : 3 with 15 red marbles: each part is $15 \div 5 = 3$ marbles. Blue marbles: $3 \times 3 = 9$.
- 24) **Choice C is correct.** **(6.D.2)** Multiply the model height by the scale: $10 \text{ cm} \times 0.8 \text{ m/cm} = 8 \text{ m}$.
- 25) **Choice C is correct.** **(6.D.3)** $1\frac{1}{3} = \frac{4}{3}$, so $\frac{4}{3} \div \frac{2}{5} = \frac{4}{3} \times \frac{5}{2} = \frac{20}{6} = \frac{10}{3} = 3\frac{1}{3}$.
- 26) **Choice A is correct.** **(6.A.1)** The long division shows $16 \times 216 = 3,456$, so the quotient is exactly 216 with no remainder.
- 27) **Choice A is correct.** **(6.N.2)** $3 \times 3 = 9$. We have $1 + 1 = 2$ decimal places total, so 0.09 is correct.
- 28) **Choice B is correct.** **(6.G.3)** For option B: factors of 8 are 1, 2, 4, 8 and factors of 15 are 1, 3, 5, 15. They share only 1. For A, GCF is 6; for C, GCF is 10; for D, GCF is 3.



Hi, Brave Explorer!

◇ What a trip! You explored 4 full tests. You went to many math places: multiplication, fractions, area, time, and more. ◇

★ **Smart explorers know:** every trip teaches something. Through 4 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 TODAY. SUCCEED TOMORROW!

This book includes 4 full-length Math practice tests and 2 online tests to help Grade 6 students build confidence, strengthen skills, and excel on standardized assessments.

Each practice test is carefully crafted to reflect the latest standards and includes a variety of question types, realistic test conditions, and detailed answer explanations.

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

THIS BOOK INCLUDES:

4 Full-Length Printed Tests

2 Online Practice Tests

 Detailed Answer Explanations

 **MORE PRACTICE.
GREATER RESULTS.**

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

WHAT YOU'LL 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 concepts with clear explanations and meaningful practice.



Test Confidence

Familiarize with test formats and improve accuracy and speed.



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

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



VISIT [TESTINAR.COM/MATH6](https://www.testinar.com/math6)
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AND LEARNING RESOURCES



PRACTICE
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