

7 Nebraska

NSCAS Growth

7
PRINTED
TESTS

+

2
ONLINE
TESTS

Grade 6 MATH

PRACTICE TESTS

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

Standards-Aligned *Steady Southern*
Problem Solving for Comprehensive
Assessment Program

-  7 Full-Length Printed Tests
-  Standards-Aligned Math Practice
-  Detailed Answer Keys and Explanations
-  Build Confidence. Achieve Success.



You've Got This!

 PREPARE PRACTICE SUCCEED

 PRACTICE WITH PURPOSE

 STRENGTHEN MATH SKILLS

 REVIEW, IMPROVE, AND SUCCEED

7 Nebraska NSCAS Growth Grade 6 Math Practice Tests

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



Seven 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!

Eight focused rounds using plains-ready reasoning

This book gives you seven 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 seven-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?

Eight NSCAS Growth tests, 320 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.
Test 7	Final stamina round 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.



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For more practice
& answers

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1) A pencil is 150 millimeters long. How many centimeters long is the pencil? (Use 1 centimeter = 10 millimeters.)

A. 15 cm

C. 1.5 cm

B. 1500 cm

D. 150 cm

2) For the point $(-2, 5)$, what is the x -coordinate?

3) A spinner has 8 equal sections. Two sections are red, three are blue, and three are green. What is the probability of spinning green?

A. $\frac{1}{8}$

C. $\frac{3}{8}$

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

D. $\frac{5}{8}$

4) Which temperature is lower: -8°F or -3°F ?



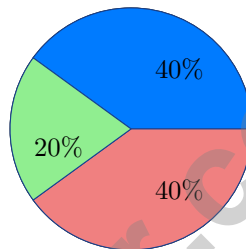
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5) A stem-and-leaf plot shows daily temperatures (in °F) recorded during winter:

Stem	Leaf
3	2, 5, 9
4	1, 4, 6, 8
5	0, 3, 7

How many temperatures are recorded?

- A. 7 C. 10
 B. 8 D. 11



6)

A circle graph shows the results of a survey with 300 students. One section is 20%. How many students are in this section?

- A. 20 C. 80
 B. 60 D. 100

7) A science class recorded the heights of 50 plants in cm: 8, 12, 15, 18, 20, 21, 22, 23, 25, 26, 28, 30, 31, 33, 35, 38, 40, 42, 44, 46, 48, 50, 52, 54, 55, 57, 59, 61, 62, 64, 65, 67, 68, 70, 72, 74, 75, 77, 78, 80, 82, 84, 85, 87, 88, 90, 92, 94, 95, 98.

Which display would be BEST for showing the spread and frequency of plant heights?

- A. Bar graph showing each height C. Circle graph dividing by plant type
 B. Pictograph with plant symbols D. Histogram with intervals of 10 cm



6) On a scale map of a state, the distance between two towns is 4 inches. The map's scale is 1 inch = 20 miles. A car travels at 50 miles per hour. How long does it take to drive from one town to the other?

- A. 1.6 hours C. 4 hours
 B. 3.2 hours D. 5 hours

7) What is $8,064 \div 42$?

- A. 192 C. 204
 B. 200 D. 212

8) Find the LCM of 5 and 9.

- A. 45 C. 40
 B. 35 D. 15

9) The factor tree below shows the GCF of two numbers. Use it to write the factored form of the sum.

$$\text{GCF} = 2 \times 3$$

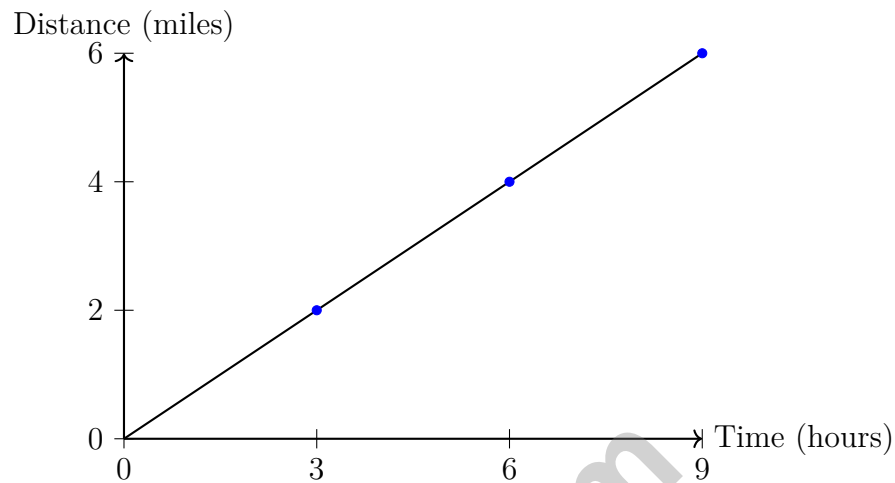
$$2 \qquad 3$$

First number: 2 × 3 × 5 = 30 Second number: 3 × 3 × 4 = 24

- A. $6(5 + 4)$ C. $5(6 + 24)$
 B. $6(5 \times 4)$ D. $(5 + 4)(2 + 3)$



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1)

Based on the graph, what is the unit rate in miles per hour?

- A. $\frac{1}{2}$ mile per hour C. 1 mile per hour
 B. 2 miles per hour D. $\frac{2}{3}$ miles per hour

2) A farmer uses the ratio table to track seeds and plants. If the farmer wants to plant 150 seeds to get 30 plants, does the ratio match the table?

Seeds	Plants
25	5
50	10

- A. Yes, the ratio 150 : 30 is equivalent to 25 : 5 C. Cannot determine without more information
 B. No, the ratio 150 : 30 is NOT equivalent to 25 : 5 D. The ratios are reciprocals



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- 3) A store charges the same price per item. Three customers bought items with these totals:

Number of Items	Total Cost (\$)
3	15
7	35
10	45

Which customer paid an incorrect total if the unit price is constant?

- A. The first customer (3 items) D. All customers paid the correct amount
- B. The second customer (7 items)
- C. The third customer (10 items)
- 4) A distribution center needs to split 4,536 boxes among 19 warehouses equally. How many boxes per warehouse (round up if necessary)?
- A. 238 C. 240
- B. 241 D. 239
- 5) What is the prime factorization of 84?
- A. $2^2 \times 21$ C. 3×28
- B. $2^2 \times 3 \times 7$ D. 4×21
- 6) For the inequality $x < 3$, what boundary number is used on the number line?



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 seven 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.3)** Divide: $150 \div 10 = 15$ cm.
- 2) **The correct answer is -2 .** **(6.R.2)** In an ordered pair (x, y) , the first coordinate is x .
- 3) **Choice C is correct.** **(6.N.1)** Green sections = 3. Total sections = 8. Probability = $\frac{3}{8}$.
- 4) **The correct answer is -8 .** **(6.G.3)** On a number line, -8 is less than -3 .
- 5) **Choice C is correct.** **(6.D.2)** Count all leaves: $3 + 4 + 3 = 10$ data points.
- 6) **Choice B is correct.** **(6.N.1)** 20% of 300 is $0.20 \times 300 = 60$ students.
- 7) **Choice D is correct.** **(6.D.1)** With 50 continuous numerical values, a histogram groups them into intervals (e.g., 0–10, 11–20, etc.) to show the distribution pattern. A bar graph for each individual height would be too crowded; circle and pictographs don't display numerical distributions.
- 8) **Choice D is correct.** **(6.G.3)** Count the lavender counters first: there are 5. The total is $5 + 2 = 7$, so lavender to total is $5 : 7$.
- 9) **Choice D is correct.** **(6.A.2)** "At least 48" means 48 or more, which is written as $h \geq 48$.
- 10) **Choice B is correct.** **(6.G.1)** Hours worked is the independent variable you control; earnings depend on how many hours you work.
- 11) **Choice D is correct.** **(6.R.2)** From $(2, 5)$ to $(6, 5)$ is the top. From $(6, 5)$ downward, the adjacent vertex is at $(6, 2)$ if the height is 3.
- 12) **Choice B is correct.** **(6.D.2)** With 50 values, a histogram with intervals is cleaner and shows the overall shape better than a dot plot with many dots.
- 13) **Choice C is correct.** **(6.D.1)** Total in fifth bin: $250 - (45 + 60 + 75 + 40) = 250 - 220 = 30$ data points.
- 14) **Choice B is correct.** **(6.G.1)** Identical boxes mean the same Q_1 , median, and Q_3 (hence same IQR). Longer whiskers indicate the min and max values are further from the box.
- 15) **Choice D is correct.** **(6.A.1)** Parentheses: $4 - 1 = 3$. Exponent: $2^2 = 4$. Multiply: $3 \times 4 = 12$. Subtract: $12 - 1 = 11$.
- 16) **Choice C is correct.** **(6.A.1)** In the product $5 \times \ell = 5\ell$, the two factors are 5 and ℓ .
- 17) **Choice C is correct.** **(6.N.1)** "Fewer than 10" means strictly less than 10, so $c < 10$.
- 18) **Choice D is correct.** **(6.G.3)** The diameter is 14 inches, so the radius is $r = 7$ inches. Area = $\pi r^2 = \pi \times 7^2$.
- 19) **Choice A is correct.** **(6.D.2)** The data is already ordered. The median is the middle value: 9.
- 20) **The correct answer is Opposite numbers and equivalent decimals/fractions.** **(6.N.1)** Statement B is correct because opposites are the same distance from zero on opposite sides. Statement C is correct because $0.25 = \frac{1}{4}$, so $-0.25 = -\frac{1}{4}$. Statements A, D, and E are false.
- 21) **Choice C is correct.** **(6.D.2)** Distances from the mean (14): $|10 - 14| = 4$, $|12 - 14| = 2$, $|14 - 14| = 0$, $|16 - 14| = 2$, $|18 - 14| = 4$. MAD = $\frac{4+2+0+2+4}{5} = \frac{12}{5} = 2.4$.
- 22) **Choice C is correct.** **(6.N.1)** The ratio is 2 : 5. When sweaters are 10 (multiply by 5), t-shirts are $5 \times 5 = 25$.
- 23) **Choice D is correct.** **(6.N.1)** Ratio 7 : 4 with width 20 cm: each part is $20 \div 4 = 5$ cm. Length is $7 \times 5 = 35$ cm.
- 24) **Choice A is correct.** **(6.D.2)** Rectangle 1: $4 \times 5 = 20$ m and $2 \times 5 = 10$ m, so area = 200 sq m. Rectangle 2: $5 \times 4 = 20$ m and $2 \times 4 = 8$ m, so area = 160 sq m. Rectangle 1 is larger.
- 25) **Choice A is correct.** **(6.A.1)** $8,712 \div 12 = 726$. The factory makes 726 light bulbs each day.
- 26) **Choice C is correct.** **(6.N.1)** Change: $6 - (-4) = 6 + 4 = 10^\circ\text{C}$.
- 27) **Choice A is correct.** **(6.N.2)** Substitute $x = 3$ into the equation. Check: $\frac{3}{3} = 1$ is true.
- 28) **Choice C is correct.** **(6.A.2)** For every 1 teaspoon of salt, there are 5 teaspoons of sugar. With 2 teaspoons of salt, multiply both parts by 2, giving 2 : 10.



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From Your Math Family

Hi, Math Family Member,

◇ Welcome to a special note from your math family. You finished 7 full practice tests, and that hard work matters more than any score. We see you. We are proud of you. ◇

★ **Our math family knows:** math is a journey. You have taken many steps already. The test is just one stop. Every skill you built is yours forever. ★

What Your Math Family Sees

- **Hard Work:** You keep showing up.
- **Real Growth:** You can do problems today you couldn't before.
- **Brave Heart:** You face hard problems with brave thinking.
- **Bright Future:** Your math journey is just beginning.

Family tip: on test day, picture us standing behind you, smiling and rooting for you. You are not alone. Your math family is with you!

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

Jay Daie

Your Math Family

MASTER TODAY. SUCCEED TOMORROW.

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 comprehensive assessments.

With 7 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 concepts aligned with standards through meaningful practice.



Test Confidence

Become familiar 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

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.



7 FULL-LENGTH
PRINTED TESTS



STANDARDS-
ALIGNED PRACTICE



DETAILED ANSWER
KEYS & EXPLANATIONS