

Nebraska

NSCAS Growth

GRADE 6

MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs



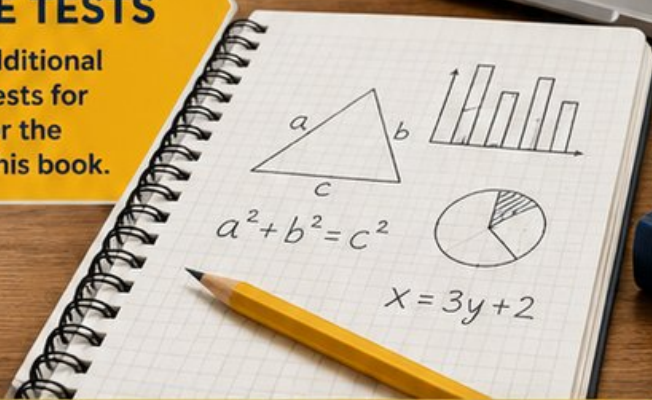
5 PRINTED TESTS

- ✓ Full-Length Practice Tests
- ✓ Realistic Questions
- ✓ Answer Key & Explanations



+ 2 ONLINE TESTS

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



PREPARE • PRACTICE • SUCCEED



5 Nebraska NSCAS Growth Grade 6 Math Practice Tests

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



Five 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



Copyright ©

Testinar Inc



Published by Testinar Inc

Testinar.com

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law, including Section 107 or 108 of the 1976 United States Copyright Act.

This publication is independently produced and has no official connection to any state, district, or national testing program.

Test names and organizational names used herein are the property of their respective trademark holders.



Copyright ©

Welcome, Nebraska Math Explorer!

Eight focused rounds using plains-ready reasoning

This book gives you five 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 five-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 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 3–4	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 5	Final stamina round for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

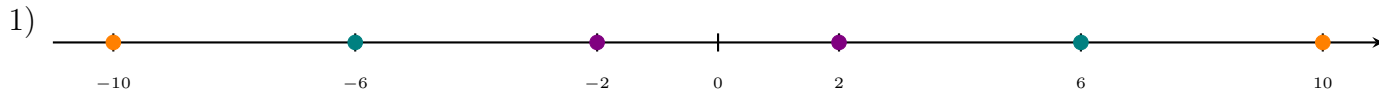
The tests are mixed on purpose. Plains-ready reasoning means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!
For more practice
& answers

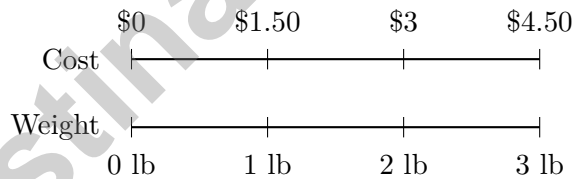
Table of Contents

★ Practice Test 1	_____	13
★ Practice Test 2	_____	28
★ Practice Test 3	_____	43
★ Practice Test 4	_____	62
★ Practice Test 5	_____	78
Practice Test Answer Keys	_____	95
Practice Test Answers and Explanations	_____	99



On this number line, mark which pairs have the same absolute value.

- A. -10 and 10 ; -6 and 6 ; -2 and 2 C. Only -6 and 6
 B. Only -2 and 2 D. Only -10 and 10
- 2) A teen allocates allowance as: \$20 for savings (20%), \$30 for entertainment (30%), \$15 for gifts (15%), and the rest for snacks. How much total allowance does the teen receive?
- A. \$50 C. \$125
 B. \$75 D. \$100
- 3) The table shows the cost of apples by weight. What is the cost per pound?



- A. \$2 per pound C. \$1 per pound
 B. \$1.25 per pound D. \$1.50 per pound
- 4) A rectangular garden is drawn with a scale of $1 \text{ cm} = 2 \text{ m}$. The drawing shows the garden as 5 cm long and 3 cm wide. What is the perimeter of the actual garden?
- A. 8 m C. 32 m
 B. 16 m D. 64 m



Scan me!
For more practice
& answers

5) What is the GCF of 21 and 28?

A. 2

C. 7

B. 4

D. 14

6) Which ratio is equivalent to 5 : 15?

A. 1 : 2

C. 10 : 30

B. 5 : 10

D. 1 : 3

7) A paint manufacturer creates batches in which the ratio of red to blue to yellow is always 2 : 3 : 4. If a batch contains 8 liters of red paint, what is the total volume of the entire batch?

A. 18 L

C. 36 L

B. 24 L

D. 48 L

8) A painter can paint 96 square feet in 4 hours. At this rate, how many square feet can the painter paint in 8 hours?

A. 100 square feet

C. 200 square feet

B. 384 square feet

D. 192 square feet

9) A spinner is divided into 5 equal sections. The probability of spinning a particular color is $\frac{1}{5}$ or 20%. If the spinner is spun 100 times, about how many times would you expect to land on that color?



10) A student is finding the unit price of shirts. 4 shirts cost \$48. The student divides $4 \div 48$ and gets 0.083. What is the student's error?

- A. Forgot to find the unit rate at all C. Did not round the answer correctly
 B. Divided the quantity by the cost D. Used the wrong operation entirely instead of cost by quantity

11) A farmer plants corn and soybeans in a 5 : 3 ratio. The table shows equivalent plantings:

Corn (acres)	Soybeans (acres)
5	3
10	6
?	9

- A. 15 C. 12
 B. 14 D. 18

12) Which option correctly shows a proportional relationship starting from the origin (0, 0) with a unit rate of 3?

A. Points at (1, 3), (2, 6), (3, 9) B. Points at (1, 1), (2, 2), (3, 3) C. Points at (2, 3), (4, 6), (6, 9) D. Points at (1, 2), (2, 3), (3, 4)

- A. Option A C. Option C
 B. Option B D. Option D

13) A student says “62% means $\frac{62}{10}$.” Is this correct?

- A. Yes, this is correct. C. No, $62\% = 62$.
 B. No, $62\% = \frac{6.2}{10}$. D. No, $62\% = \frac{62}{100}$.



Scan me!
For more practice
& answers

1) Write an expression for “half the product of 10 and a number m ”.

A. $\frac{10m}{2}$

B. $\frac{10+m}{2}$

C. $5m + m$

D. $10 \cdot \frac{m}{2}$

2) Two classes' quiz scores (out of 20) have median of 16 but different ranges: Class X range = 8, Class Y range = 12. Which had more consistent performance?

 A. Class X B. Class Y C. Both equally consistent D. Cannot determine

3) A standard die is rolled. What is the probability of rolling a 1 or a 2?

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

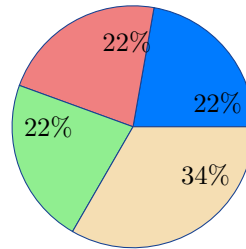
B. $\frac{1}{3}$

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

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

4) A student records the number of minutes spent on homework: 24, 31, 28, 35, 29, 32, 26. Arranging in a stem-and-leaf plot, the data spans:

 A. One stem (20s) B. Two stems (20s and 30s) C. Three stems D. Cannot determine

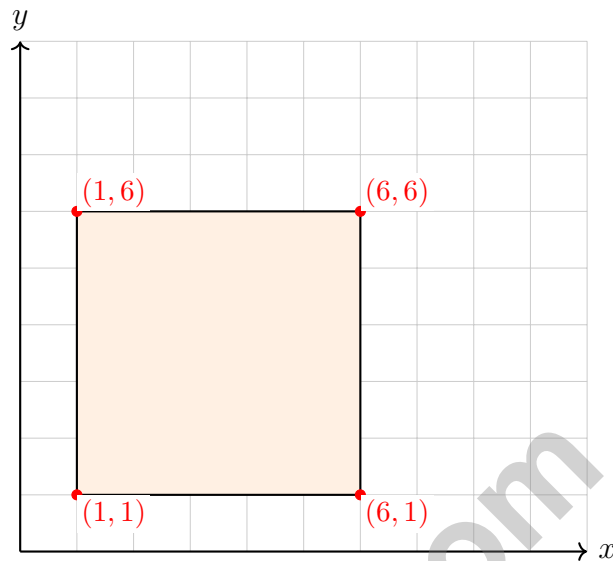


5)

A circle graph shows that three sections each represent approximately 22% and one section represents approximately 34%. If the total is 450 items, how many items are in the largest section?

 A. 99 C. 150 B. 130 D. 1706) Compute: $(-4) \times (-9) \div 6$.

Scan me!
For more practice
& answers



1)

Is this a square or a rectangle?

- A. Square C. Trapezoid
 B. Rectangle but not a square D. Parallelogram

2) Which is the MOST statistical question?

- A. How many wheels does a bicycle have? C. How many hours of sleep do sixth graders get each night?
 B. What is the temperature in my room right now? D. What color is my coat?

3) Five numbers have a mean of 20. Four of them are 15, 18, 22, 25. What is the fifth number?

- A. 15 C. 20
 B. 18 D. 25



- 4) Sarah's daily allowance for 4 days was \$8, \$10, \$6, \$12. What is her mean daily allowance?
- A. \$9 C. \$10
 B. \$9.50 D. \$8
- 5) A scientist measures the pH of water samples: 6.8, 7.0, 7.2, 6.9, 7.1, 7.3, 7.0. When ordered: 6.8, 6.9, 7.0, 7.0, 7.1, 7.2, 7.3. The mean is 7.04. What is the MAD?
- A. 0.11 C. 0.5
 B. 7.04 D. 0.15
- 6) An online store's order values (in dollars) for 5 days: {150, 175, 200, 225, 500}. How should the center be best described?
- A. Use the mean because it is always best. C. Use the mode because it is most reliable.
 B. Use the median because the outlier distorts the mean. D. Use the range because it gives spread.
- 7) A bag contains only red and green marbles. There are 12 red marbles and the probability of drawing red is $\frac{3}{5}$. How many marbles are in the bag altogether?
- A. 15 C. 20
 B. 18 D. 25
- 8) Data on pages read in a book: 56, 58, 62, 65, 61, 59, 63. In the stem-and-leaf plot, which stem has the most leaves?
- A. Stem 5 C. Both have equal leaves
 B. Stem 6 D. Stem 7



Scan me!
For more practice
& 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.



Scan me!
For more practice
& answers

Nebraska Practice Test Answers and Explanations

Review the five 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.D.2) Opposite numbers all have equal absolute values. $|-10| = |10| = 10$, $|-6| = |6| = 6$, $|-2| = |2| = 2$.
- 2) **Choice D is correct.** (6.D.2) Savings is 20% of total, and savings amount is \$20. Total: $\$20 \div 0.20 = \100 .
- 3) **Choice D is correct.** (6.N.1) Unit rate: $1.50 \div 1 = 1.50$ dollars per pound. Verify: $3 \div 2 = 1.50$ and $4.50 \div 3 = 1.50$.
- 4) **Choice C is correct.** (6.D.2) Actual dimensions: $5 \times 2 = 10$ m and $3 \times 2 = 6$ m. Perimeter: $2(10 + 6) = 32$ m.
- 5) **Choice C is correct.** (6.A.1) Factors of 21: 1, 3, 7, 21. Factors of 28: 1, 2, 4, 7, 14, 28. Common factors: 1, 7. The GCF is 7.
- 6) **Choice D is correct.** (6.G.3) A helpful way to check is to simplify. Divide both parts of $5 : 15$ by 5: $\frac{5}{5} : \frac{15}{5} = 1 : 3$.
- 7) **Choice C is correct.** (6.A.2) Red is the 2-part amount, and $8 \div 2 = 4$, so each part is 4 L. The total ratio has $2 + 3 + 4 = 9$ parts, and $9 \times 4 = 36$ L.
- 8) **Choice D is correct.** (6.G.1) Find the unit rate: $96 \div 4 = 24$ square feet per hour. Then multiply by 8 hours: $24 \times 8 = 192$ square feet.
- 9) **The correct answer is 20.** (6.N.1) Expected number of spins = $0.2 \times 100 = 20$ times.
- 10) **Choice B is correct.** (6.A.1) The correct calculation is $\$48 \div 4 = \12 per shirt. The student reversed the division, computing $4 \div 48$ instead of $48 \div 4$. Unit price requires cost per unit, not units per cost.
- 11) **Choice A is correct.** (6.N.1) The ratio is $5 : 3$. When soybeans are 9 (multiply by 3), corn is $5 \times 3 = 15$ acres.
- 12) **Choice A is correct.** (6.R.2) A proportional relationship with unit rate 3 means $y = 3x$. Option A has points (1, 3), (2, 6), (3, 9), which satisfy $y = 3x$. The other options do not have this constant ratio.
- 13) **Choice D is correct.** (6.N.1) Percent means “per 100,” so $62\% = \frac{62}{100}$, not $\frac{62}{10}$. This is a common error analysis item.
- 14) **Choice A is correct.** (6.N.1) 33% of $\$48 \approx \frac{1}{3} \times 48 = 16$. Sale price is approximately $\$48 - \$16 = \$32$.
- 15) **The correct answer is 0.** (6.D.2) Each value appears once, so there are no modes.
- 16) **Choice D is correct.** (6.G.3) Multiply: $3 \times 1000 = 3000$ meters.
- 17) **Choice B is correct.** (6.D.1) Interest: $I = \$800 \times 0.025 \times 1 = \20 . Total: $\$800 + \$20 = \$820$.
- 18) **Choice D is correct.** (6.N.1) Ratios: $25/5 = 5$ and $40/8 = 5$ dollars per pound. The constant ratio confirms a proportional relationship with equation $c = 5p$. The line passes through the origin.
- 19) **Choice D is correct.** (6.D.3) $\frac{7}{10} \div \frac{1}{5} = \frac{7}{10} \times 5 = \frac{35}{10} = \frac{7}{2} = 3\frac{1}{2}$. So the chef can make $3\frac{1}{2}$ small batches.
- 20) **Choice A is correct.** (6.A.1) $6,435 \div 33 = 195$. Check: $33 \times 195 = 6,435$.
- 21) **The correct answer is IQR and middle 50%.** (6.G.3) (A) $IQR = Q3 - Q1 = 45 - 20 = 25$. (D) By definition, the middle 50% of data falls between $Q1$ and $Q3$. (B) is false because the box plot is not definitely symmetric. (C) is false because the range is $80 - 10 = 70$, not 75. (E) is false because $30 - 20 = 10$ while $45 - 30 = 15$, showing asymmetry.
- 22) **Choice A is correct.** (6.N.2) Add: $0.75 + 1.2 + 0.8 + 0.6 = 3.95$ kg.
- 23) **Choice B is correct.** (6.G.3) Multiples of 8: 8, 16, 24, 32, ... Multiples of 12: 12, 24, 36, ... The least common multiple is 24.
- 24) **Choice B is correct.** (6.G.2) Starting at floor 0: up 6 brings us to floor 6. Down 10 from floor 6 brings us to floor $6 - 10 = -4$ (four floors below ground level).
- 25) **Choice C is correct.** (6.N.1) Distance = $\frac{3}{4} - (-\frac{1}{4}) = \frac{3}{4} + \frac{1}{4} = \frac{4}{4} = 1$.
- 26) **Choice A is correct.** (6.R.2) The point (2, 8) has $y = 8$. A point with $x = -5$ and the same y -coordinate is $(-5, 8)$.
- 27) **Choice D is correct.** (6.G.3) $-6 < -5$ because -6 is further left on the number line.
- 28) **Choice B is correct.** (6.G.3) $90 = \frac{1}{2} \times 15 \times h \Rightarrow h = 12$ in.



Scan me!
For more practice
& answers

Hi, Brave Explorer!

◇ What a trip! You explored 5 full tests. You went to many math places: multiplication, fractions, area, time, and more. ◇

★ **Smart explorers know:** every trip teaches something. Through 5 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 book provides **5 full-length Math practice tests** designed to help Grade 6 students strengthen their skills, build confidence, and excel on standardized assessments.

Each test is carefully crafted to reflect the latest standards and covers a wide range of math topics with realistic questions and detailed answer explanations.



BUILD CONFIDENCE

Practice builds familiarity and reduces test anxiety.



IMPROVE ACCURACY

Sharpen skills and avoid common mistakes.



ACHIEVE SUCCESS

Consistent practice leads to greater results.

WHAT'S INSIDE?



5 Full-Length Practice Tests

Realistic tests designed to mirror actual exam conditions.



Realistic Questions

A variety of question types to strengthen problem-solving skills.



Answer Keys & Explanations

Detailed solutions to help students learn and improve.



Performance Tracking

Track progress and identify areas that need improvement.



Comprehensive Coverage

All essential topics aligned with Grade 6 math standards.



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

FOR MORE PRACTICE TESTS AND LEARNING RESOURCES



PRACTICE
REGULARLY



STAY
FOCUSED



SOLVE
CONFIDENTLY



SUCCEED
BRIGHTLY

PREPARE TODAY. **SUCCEED TOMORROW!**