

8

Nebraska

NSCAS Growth

8
PRINTED
TESTS

+

2
ONLINE
TESTS

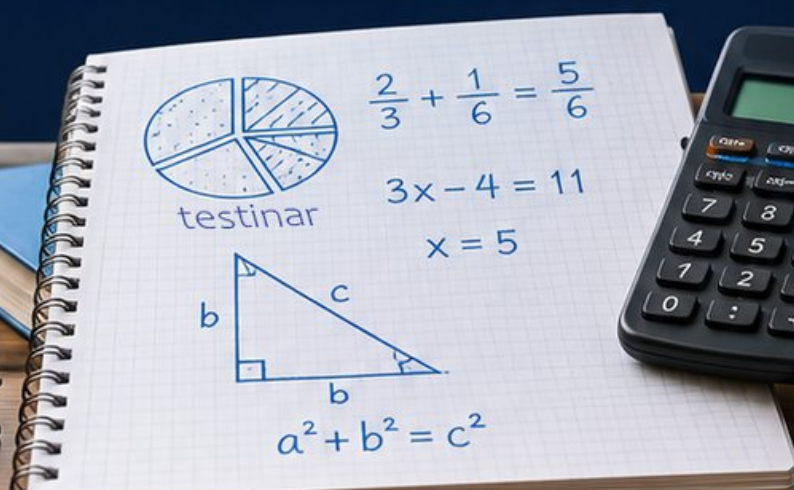
GRADE 6

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



BUILT FOR
ACAP SUCCESS



REALISTIC TESTS
& QUESTION TYPES



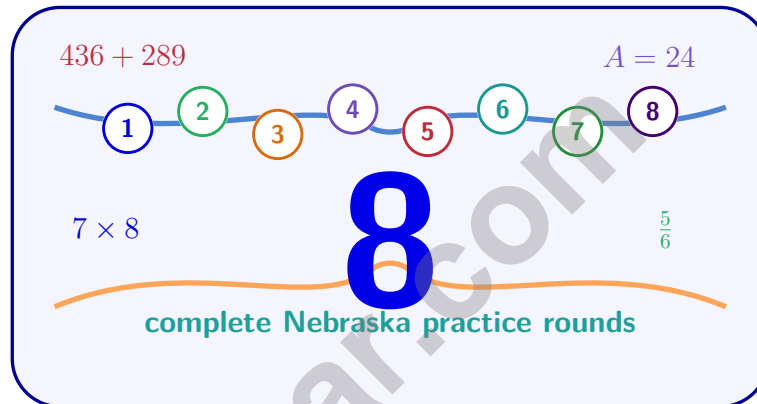
STRENGTHEN
MATH SKILLS



REVIEW, PRACTICE,
AND IMPROVE

8 Nebraska NSCAS Growth Grade 6 Math Practice Tests

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



Eight 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 eight 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 eight-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.
Tests 7–8	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) Study the labeled expression diagram below:

$$\begin{array}{ccccccc} 4x & + & 7 & + & 2y & & \\ \downarrow & & \downarrow & & \downarrow & & \\ \text{Term 1} & & \text{Term 2} & & \text{Term 3} & & \end{array}$$

What is the coefficient in Term 3?

A. 2

C. y

B. 7

D. 4

2) In a proportional relationship, if $y = kx$, what does k represent?

A. Where the line crosses the vertical axis

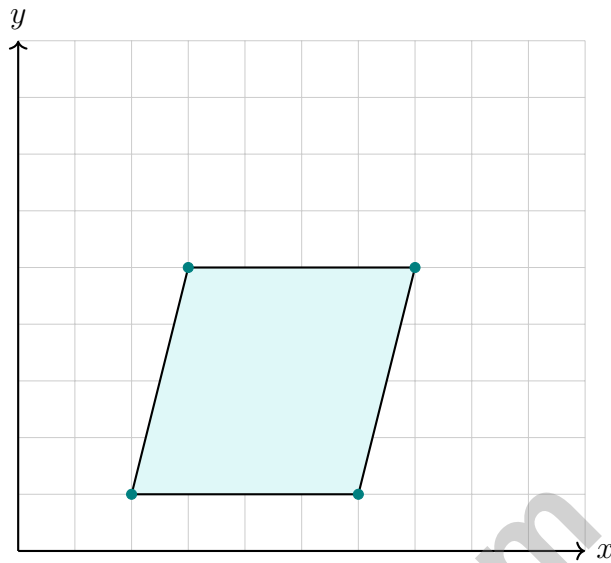
C. The independent variable

B. The constant rate of change (how much y changes for each unit of x)

D. The dependent variable



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3)

What is the name of this quadrilateral?

- A. Parallelogram C. Quadrilateral
 B. Rectangle D. Trapezoid

4) When displaying temperature data that varies seasonally throughout a year, which display would be LEAST effective?

- A. Line graph with months on x-axis C. Histogram grouping temperatures into ranges
 B. Dot plot of all 365 daily temperatures D. Bar graph with one bar per month

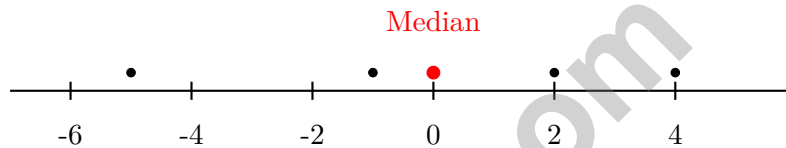


- 1) A student rewrites a non-statistical question to make it statistical. Which is the BEST rewrite?

Original: "How old is my teacher?"

- A. How old are the teachers at our school?
 B. In what year was my teacher born?
 C. How many teachers are there?
 D. What is the average age of all teachers in the United States?

- 2) Order the values and find the median: $-5, 2, -1, 4, 0$.



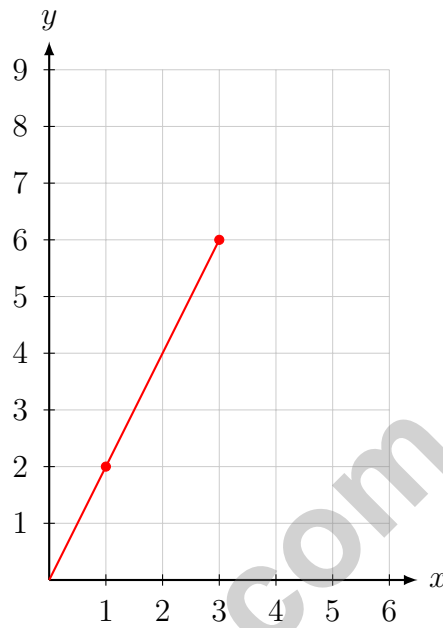
- A. -5
 B. -1
 C. 0
 D. 2
- 3) A jar contains 7 yellow marbles and 3 red marbles. If one marble is drawn at random, express the probability of drawing a red marble as a fraction in lowest terms.

- 4) Two classes took the same test. Class A's scores have a mean of 80 and MAD of 4. Class B's scores have a mean of 80 and MAD of 7. What does this tell you?

- A. Class A performed better overall.
 B. Class B performed better overall.
 C. Class A's scores are more consistent.
 D. Class B's scores are more consistent.



5) The graph below shows a proportional relationship.



Which equation matches this graph?

A. $y = 2x$

B. $y = x + 2$

C. $y = 3x$

D. $y = x + 1$



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1) A triangular prism net shows 2 triangles and 3 rectangles. If each rectangle has dimensions 8 cm by 4 cm, and the sum of the three base sides is 12 cm, what is the lateral surface area?

A. 32 cm^2

B. 48 cm^2

C. 96 cm^2

D. 192 cm^2

2) Simplify: $8 - 2x + 5x + 3 + x$.

A. $4x + 8$

B. $14x + 3$

C. $6x + 11$

D. $4x + 11$

3) A recipe uses 3 cups of flour for every 2 cups of sugar. If the recipe uses f cups of flour, which expression shows the cups of sugar needed?

A. $3f$

B. $f + 2$

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

D. $2f$

4) The distance d traveled by a jogger in t minutes is shown in the table.

Time (min)	5	10	15	20
Distance (mi)	0.5	1	1.5	2

What is the jogger's speed in miles per minute?

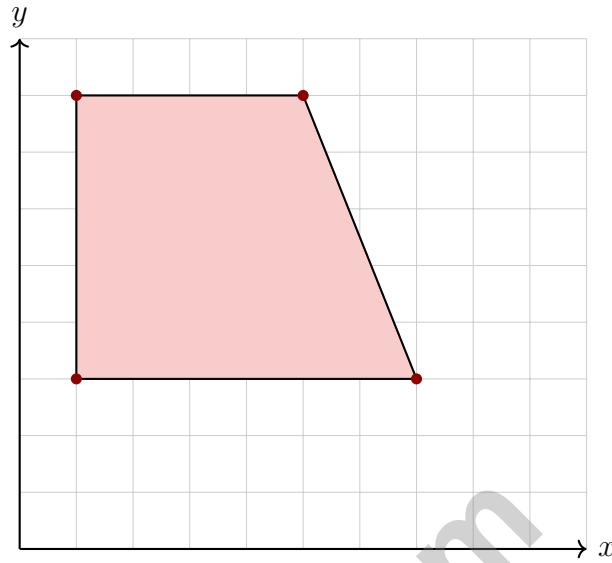
A. 0.05 miles per minute

B. 0.5 miles per minute

C. 0.2 miles per minute

D. 0.1 miles per minute





5)

What is the length of the top side?

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

6) A mountaineer climbs from sea level to an elevation of 4000 feet, then descends 2500 feet. At what elevation is the mountaineer now?

7) What are the coordinates of the origin?

- A. (1, 1)
- B. (0, 0)
- C. (-1, -1)
- D. (0, 1)



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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 eight 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.A.1)** Term 3 is $2y$, so the coefficient is 2.
- 2) **Choice B is correct.** **(6.G.1)** In $y = kx$, k is the constant multiplier that shows the relationship: for every unit of x , the value of y changes by k units.
- 3) **Choice D is correct.** **(6.R.2)** The quadrilateral has one pair of parallel sides (top and bottom are parallel). This makes it a trapezoid.
- 4) **Choice B is correct.** **(6.D.1)** A dot plot with 365 data points would be too crowded to read or interpret meaningfully. Line graphs, histograms, and bar graphs all organize data more effectively for large datasets.
- 5) **Choice C is correct.** **(6.N.1)** For $k = 5$, $(1, 5)$ and $(3, 15)$ both fit because $5/1 = 5$ and $15/3 = 5$. The point $(5, 27)$ does not fit because $27/5 = 5.4$. Changing it to $(5, 25)$ makes $25/5 = 5$.
- 6) **Choice C is correct.** **(6.R.2)** Quadrant III is in the lower left. The point closest to this boundary from Quadrant IV would have a small x -coordinate. The point $(1, -5)$ has the smallest x -value among the Quadrant IV points listed.
- 7) **Choice D is correct.** **(6.G.3)** A negative divided by a positive is negative: $\frac{-20}{4} = -5$.
- 8) **Choice A is correct.** **(6.N.2)** Differential is points scored minus points allowed: $48 - 52 = -4$.
- 9) **Choice C is correct.** **(6.N.1)** "Under 16" means strictly less than 16, not including 16. The inequality is $a < 16$.
- 10) **Choice A is correct.** **(6.N.2)** $V = 4 \times 1.5 \times 2.5 = 6 \times 2.5 = 15 \text{ m}^3$.
- 11) **Choice B is correct.** **(6.R.2)** Width: $6 - 1 = 5$ units. Height: $7 - 2 = 5$ units. Area = $5 \times 5 = 25$ square units.
- 12) **The correct answer is 25.** **(6.A.2)** At least 25 includes 25 and all greater numbers.
- 13) **Choice D is correct.** **(6.G.3)** In this net arrangement (1-2-3-4 in a row, 5 above 2, 6 above 3), faces 1 and 4 are on opposite ends of the center line and will be opposite when the net is folded into a cube.
- 14) **Choice C is correct.** **(6.G.3)** The area of a circle is πr^2 . Choice B is circumference; choices A and D are incorrect formulas.
- 15) **Choice A is correct.** **(6.D.1)** The population is the entire group of interest (all community members). The sample is the subset of people who actually answered the survey. Samples are drawn from populations to estimate answers.
- 16) **Choice C is correct.** **(6.D.2)** Stem 12 (representing 12.1 to 12.9) has 5 leaves: 1, 3, 5, 7, 9, giving 5 runners.
- 17) **Choice C is correct.** **(6.N.1)** $\frac{2}{5} = 40\%$. So $0.40 \times 480 = 192$ matinee tickets.
- 18) **Choice D is correct.** **(6.G.3)** Match 35 red pens to the 7 red parts: $35 \div 7 = 5$, so each part is worth 5 pens. Blue has 5 parts, so $5 \times 5 = 25$ blue pens.
- 19) **Choice C is correct.** **(6.G.1)** Divide cost by pounds: $3 \div 2 = 1.50$ dollars per pound.
- 20) **The correct answer is $\frac{1}{5} \times \$150 = \30 and $0.20 \times \$150 = \30 .** **(6.N.1)** $20\% = \frac{20}{100} = \frac{1}{5} = 0.20$. Choices A and B correctly calculate 20% of \$150. Choice C is 40%, Choice D is 50%, and Choice E uses $\frac{20}{10} = 2$, not 20%.
- 21) **Choice B is correct.** **(6.N.1)** The ratio is 7 : 3. When hamburgers are 21 (multiply by 3), hot dogs are $3 \times 3 = 9$.
- 22) **Choice D is correct.** **(6.R.2)** The unit rate is the y -value when $x = 1$. From $(2, 8)$: $8 \div 2 = 4$. When $x = 1$, $y = 4$. Verify with $(5, 20)$: $20 \div 5 = 4$ ✓.
- 23) **Choice A is correct.** **(6.A.1)** $7,600 \div 25 = 304$. Verify: $25 \times 304 = 7,600$.
- 24) **Choice D is correct.** **(6.G.3)** Looking at the table, the first number that appears in both rows is 60. This is the least common multiple.
- 25) **Choice D is correct.** **(6.A.2)** The bead pattern is 4 : 6, which simplifies to 2 : 3. Choice D says 3 : 4, which changes the relationship, so it is the statement that is not correct.
- 26) **Choice B is correct.** **(6.A.1)** Shop A: $\$22.50 \div 5 = \$4.50/\text{latte}$. Shop B: $\$32.00 \div 8 = \$4.00/\text{latte}$. Shop C: $\$28.50 \div 6 = \$4.75/\text{latte}$. Shop B is lowest.
- 27) **Choice C is correct.** **(6.N.1)** $0.4 = \frac{4}{10} = \frac{40}{100} = 40\%$.



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Star Player Pep Talk

Hi, Star Player!

◇ 8 practice tests. Every one of them was a chance to grow. You took every chance. That's why you're a math star today! ◇

★ **Star players know:** confidence comes from practice. You can't fake it. You build it. You built yours over 8 tests. It's real now! ★

Star Player Stats

- **Practice:** OFF THE CHARTS!
- **Skills:** BROAD! You can do many problem types.
- **Toughness:** HIGH! You don't quit on hard problems.
- **Game Plan:** READY! You know your strategies.

Star tip: on test day, take it one play at a time. One problem. Then the next. You will earn your stars!

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

Jay Daie

Your Math Coach

MASTER MATH. ACE YOUR TESTS.

This Grade 6 Math Practice Tests book is designed to help students build confidence, strengthen math skills, and excel on comprehensive assessments.

With 8 full-length printed tests and 2 online tests, this resource provides realistic practice, a variety of question types, and detailed answer explanations to help students achieve their best.

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.



Understand Key Concepts

Reinforce important math ideas 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
- ✓ Percents
- ✓ The Number System
- ✓ Statistics & Probability
- ✓ Expressions & Equations
- ✓ Data Analysis
- ✓ Geometry
- ✓ Measurement & Conversions
- ✓ Fractions & Decimals
- ✓ 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.



8 FULL-LENGTH
PRACTICE TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS