

# 9

# Nebraska

## NSCAS Growth

# GRADE 5 MATHEMATICS PRACTICE TESTS

Full-Length Standards-Aligned Practice  
for Strong Math Performance

$$A = l \times w$$

$$x^2 + 3x - 4 = 0$$

$$y = 2x + 1$$



**9**  
FULL-LENGTH  
PRACTICE  
TESTS

$$2,345 \times 6 = 14,070$$



$$\frac{3}{4} + \frac{1}{8} = \frac{7}{8}$$

$$7.2 \div 0.8 = 9$$



$$(12 + 8) \div 4 = 5$$



Build Confidence



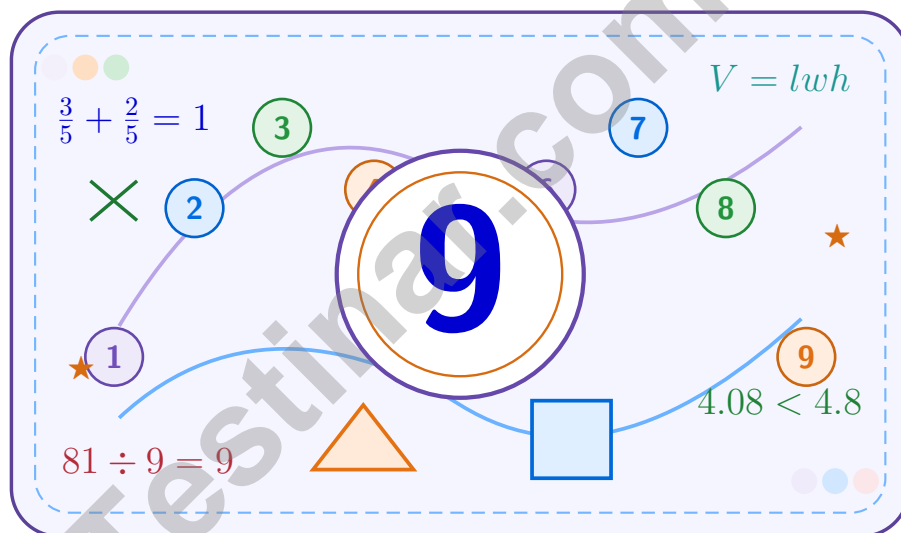
Improve Math Skills



Achieve Success

# 9 Nebraska NSCAS Growth Grade 5 Math Practice Tests

*A nine-step confidence climb with clear review, smart strategy, and practice that gets stronger every round*



Nine full tests, focused skill boosters, and student-friendly support from start to finish for Grade 5 mathematicians who want to climb higher.

**Jay Daie and Reza Nazari**



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# Welcome to the Confidence Climb

This book is here to help you practice with purpose and rise step by step

## To the Grade 5 Mathematician

This practice book is a place to think, try, fix, and grow. You do not have to be perfect on the first question or the first test. What matters most is careful effort, clear work, and learning from each round of practice.

Use these nine tests like stepping-stones. Take one test at a time, check your answers honestly, and notice which skills need more attention. Small improvements add up fast.

### Try

Give each problem your best thinking.

### Check

Study mistakes and learn what happened.

### Rise

Bring that lesson into the next round.

**A strong habit for every page:** read carefully, estimate when it helps, show your steps, and keep going even when a question feels tricky. That is how steady math confidence is built.

# How to Use This Book

A simple practice routine that turns nine tests into steady growth

## A Nine-Session Climb Map

Session	Mission Focus
1	Take Test 1; review place value and operation slips.
2	Take Test 2; keep work neat and easy to read.
3	Take Test 3; give extra time to fractions and decimals.
4	Take Test 4; slow down on word problems and units.
5	Take Test 5; compare scores and habits with earlier rounds.
6	Take Test 6; notice which habits are now automatic.
7	Take Test 7; explain open-ended answers clearly.
8	Take Test 8; review topics that still need attention.
9	Take Test 9; finish with calm, careful, confident work.

### Step 1: Warm Up

**Start with the quick review.**  
Spend a few minutes refreshing the ideas before you start a test.

### Step 2: Take the Test

**Take one full practice test.**  
Work in a quiet space and let accuracy matter more than speed.

### Step 3: Study the Pattern

**Check your work honestly.**  
Circle missed questions and notice patterns in the mistakes.

### Step 4: Learn, Then Retry

**Read the explanation and try again.**  
Learning happens after the test too. Fixing mistakes is one of the smartest parts of practice.



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# Test Overview

## What this practice book helps students do

These practice tests are designed to help Grade 5 students get comfortable with the kind of thinking used on the Nebraska NSCAS Growth. The goal is bigger than only getting answers right. Students are practicing how to read closely, choose a strategy, solve carefully, and explain their work when needed.

### Selected-Response Questions

Students solve the problem and choose the best answer. Estimating first and crossing out weak choices can save time and points.

### Constructed-Response Questions

Students show their thinking, steps, models, or explanations. Even when unsure, writing what they know can help organize the problem.

### Grade 5 Skills You Will Practice Often

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, decimals, and mixed numbers
- perimeter, area, volume, and measurement conversions
- coordinate points, patterns, graphs, and tables
- geometry and multi-step word problems

**What strong work looks like:** the answer is correct, the steps are clear, the labels or units are included, and the final result makes sense.



# Table of Contents

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## Grade 5 Mathematics Reference Materials

### PERIMETER AND AREA

Perimeter of Rectangle  $P = 2l + 2w$  or  $P = 2(l + w)$

Area of Rectangle  $A = l \times w$

Area of Triangle  $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism  $V = l \times w \times h$

### LENGTH

#### Customary

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

#### Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

1 kilometer (km) = 1,000 meters (m)

### CAPACITY

#### Customary

1 cup (c) = 8 fluid ounces (fl oz)

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

#### Metric

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### WEIGHT AND MASS

#### Customary

1 pound (lb) = 16 ounces (oz)

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1 kilogram (kg) = 1,000 grams (g)

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### TIME

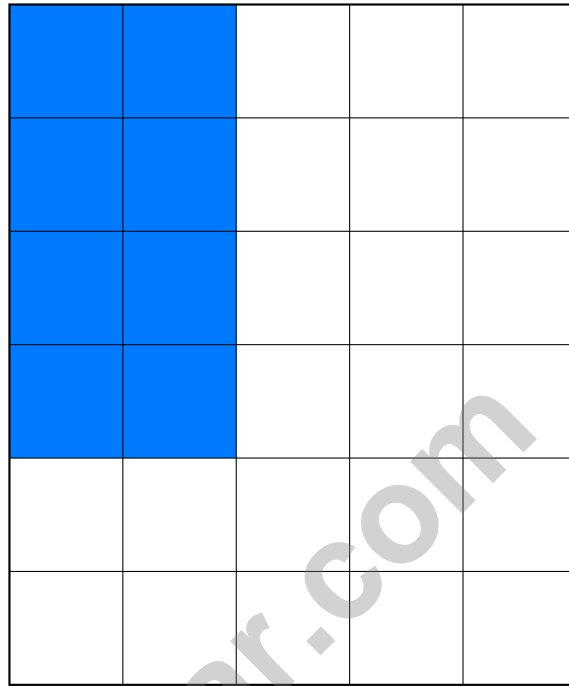
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1) Grid model for  $\frac{2}{5} \times \frac{4}{6}$ . Which statement correctly gives the total and shaded cells?



$$\frac{2}{5} \times \frac{4}{6}$$

A. Total cells: 20; Shaded: 4

B. Total cells: 30; Shaded: 6

C. Total cells: 30; Shaded: 8

D. Total cells: 20; Shaded: 8

2) Add:  $\frac{1}{9} + \frac{1}{6}$

A.  $\frac{2}{15}$

B.  $\frac{5}{18}$

C.  $\frac{2}{54}$

D.  $\frac{1}{15}$



3) Place-value chart for 12.6: identify the tenths digit.

Tens	Ones	Tenths	Hundredths
1	2	6	0

- A. 1  
 B. 2  
 C. 6  
 D. 0

4) Without finding the exact product, which statement correctly compares a product to 12?

$$\frac{3}{4} \times 12 > 12$$

$$\frac{5}{4} \times 12 > 12$$

$$\frac{1}{4} \times 12 = 12$$

$$\frac{1}{2} \times 12 > 12$$

- A.  $\frac{3}{4} \times 12 > 12$   
 B.  $\frac{1}{2} \times 12 > 12$   
 C.  $\frac{1}{4} \times 12 = 12$   
 D.  $\frac{5}{4} \times 12 > 12$

5) A quadrilateral has 4 equal sides and 4 right angles. Which name best describes the figure?

- A. Rectangle only  
 B. Rhombus only  
 C. Square  
 D. Trapezoid

6) How many  $\frac{1}{3}$ -pound bags of rice can be made from 5 pounds of rice?

- A. 12 bags  
 B. 15 bags  
 C. 18 bags  
 D. 20 bags

7) Add:  $3\frac{5}{12} + 1\frac{7}{12}$

- A.  $4\frac{1}{12}$   
 B.  $4\frac{7}{12}$   
 C. 5  
 D.  $5\frac{1}{12}$



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1) A strip shows one eighth shared equally by 2 people. Which equation finds one share?

A.  $2 \div \frac{1}{8} = n$

C.  $\frac{1}{8} \div 2 = n$

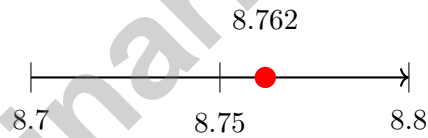
B.  $\frac{1}{8} \times 2 = n$

D.  $2 - \frac{1}{8} = n$

2) On a coordinate grid, a point at (3, 9) shows a garden is 3 units right and 9 units up from the origin. What does the  $y$ -coordinate tell you?

*Record your answer in the space provided.*

3) Maria measures 8.762 meters of ribbon. If she rounds to the nearest tenth for her project, how much does she use?



A. 8.7 m

C. 8.8 m

B. 8.76 m

D. 9 m

4) Subtract:  $\frac{4}{5} - \frac{2}{3}$

A.  $\frac{2}{15}$

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

B.  $\frac{2}{8}$

D.  $\frac{14}{15}$



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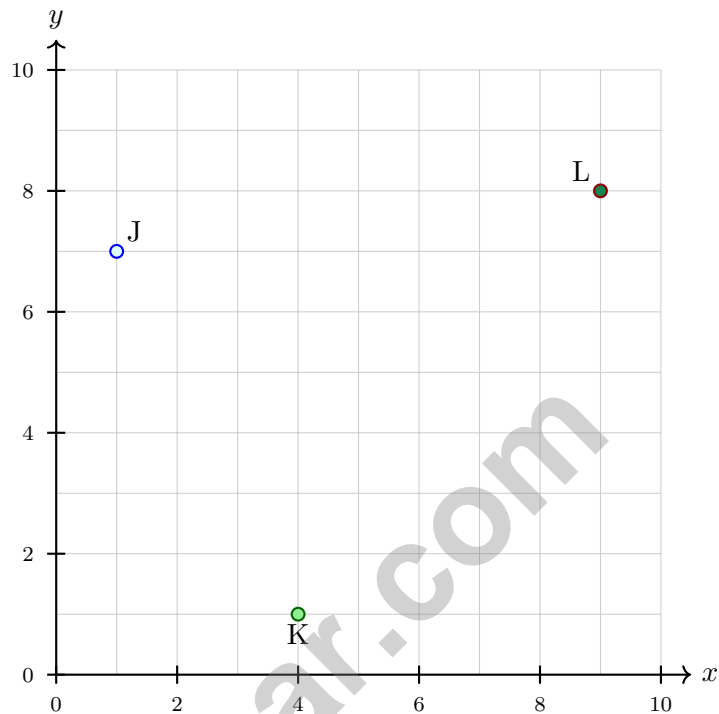
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- 1) Which ordered pair corresponds to the letter K on this grid?



- A. (1, 7)                       C. (9, 8)  
 B. (4, 1)                       D. (7, 4)

- 2) Without multiplying exactly, will  $\frac{7}{6} \times 8$  be greater than, less than, or equal to 8? Explain briefly, then find the product. Record both the comparison and the product.

*Record your answer in the space provided.*



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1) If  $1,620 \div 27 = 60$ , which division problem has the same quotient?

A.  $1,620 \div 54 = ?$

C.  $810 \div 27 = ?$

B.  $3,240 \div 54 = ?$

D.  $1,620 \div 30 = ?$

2) Find:  $24.5 \div 10^2$ .

*Record your answer in the space provided.*

3) A tank is  $\frac{7}{8}$  full. After using  $\frac{3}{8}$  for watering plants, how much remains?

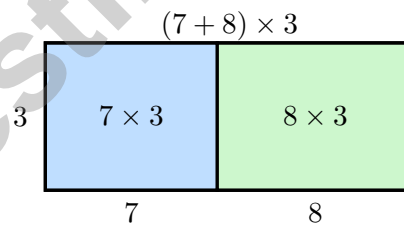
A.  $\frac{2}{8}$

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

B.  $\frac{10}{8}$

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

4) A diagram shows how  $(7 + 8) \times 3$  can be split into two parts. Based on the area model, which is true?



A.  $(7 \times 3) + (8 \times 3) = (7 + 8) \times 3$

C.  $(7 + 8) + 3 = (7 + 8) \times 3$

B.  $(7 \times 3) - (8 \times 3) = (7 + 8) \times 3$

D.  $(7 \times 3) = (7 + 8) \times 3$



## Practice Test Answer Keys

### How to use this section:

1. check your answer
2. circle missed questions
3. rework them before reading the explanation

**Good correction habits build strong Nebraska scores.**

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## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- Choice C is correct.** (5.N.3) Grid:  $5 \times 6 = 30$  cells. Shaded (2 of 5 columns, 4 of 6 rows):  $2 \times 4 = 8$  cells. Answer:  $\frac{8}{30} = \frac{4}{15}$ .
- Choice B is correct.** (5.N.3)  $\text{LCM}(9,6) = 18$ .  $\frac{1}{9} = \frac{2}{18}$  and  $\frac{1}{6} = \frac{3}{18}$ .  $\frac{2}{18} + \frac{3}{18} = \frac{5}{18}$ .
- Choice C is correct.** (5.N.3) The tenths place is the first position after the decimal point. In 12.6, the tenths digit is 6.
- Choice D is correct.** (5.N.2) Since  $\frac{5}{4}$  is greater than 1, multiplying 12 by  $\frac{5}{4}$  makes a product greater than 12. The other fractions shown are less than 1, so their products are less than 12.
- Choice C is correct.** (5.G.1) A figure with 4 equal sides and 4 right angles is a square. A square is also a rectangle and a rhombus, so "only" makes choices A and B too narrow.
- Choice B is correct.** (5.N.3) Count thirds in 5 pounds:  $5 \div \frac{1}{3} = 5 \times 3 = 15$  bags.
- Choice C is correct.** (5.N.3) Add:  $3\frac{5}{12} + 1\frac{7}{12} = 4\frac{12}{12} = 5$ .
- Choice A is correct.** (5.N.3) First day:  $\frac{2}{5} \times 150 = 60$  figures sold. Remaining:  $150 - 60 = 90$  figures. Second day:  $\frac{1}{3} \times 90 = 30$  figures sold.
- Choice C is correct.** (5.G.2) Add  $\frac{1}{2}$  each time:  $\frac{1}{2}, 1, 1\frac{1}{2}, 2, 2\frac{1}{2}, 3, 3\frac{1}{2}, 4$ . The 8th term is 4.
- Choice A is correct.** (5.G.2) Divide both numerator and denominator by 4:  $\frac{8}{100} = \frac{2}{25}$ .
- The correct answer is square.** (5.G.1) A quadrilateral with four equal sides and four right angles is a square.
- Choice D is correct.** (5.G.1) The top-right vertex has the greatest x-coordinate and the greatest y-coordinate among the rectangle's vertices, so it is (7, 4).
- The correct answer is 48.** (5.G.4) The bottom layer has 12 cubes, and the prism is 4 layers tall. That gives  $12 \times 4 = 48$  cubic units.
- Choice D is correct.** (5.G.4) From (3, 9), add 1 to  $x$  and 2 to  $y$ : the next point is  $(3+1, 9+2) = (4, 11)$ .
- Choice C is correct.** (5.N.3) The unit fraction is the amount being shared, so divide  $\frac{1}{7}$  by 2. The equation is  $\frac{1}{7} \div 2 = n$ .
- Choice A is correct.** (5.N.3) Use sixths:  $8\frac{1}{3} = 8\frac{2}{6}$ . Regroup as  $7\frac{8}{6}$ . Then  $7\frac{8}{6} - 2\frac{5}{6} = 5\frac{3}{6} = 5\frac{1}{2}$ .
- The correct answer is 5.26.** (5.N.3) Dividing by 10 moves the decimal point one place left:  $52.6 \rightarrow 5.26$ .
- Choices A, B are correct.** (5.N.3) A is true because 3 copies of (6 + 4) can be written as 2 copies plus 1 more copy. B is true because 10 groups of 7 are greater than 10 groups of 7 - 1. C adds an extra 9, and D leaves out one group of 5.
- Choice C is correct.** (5.G.3) 1 km = 1,000 m. Multiply:  $280 \times 1000 = 280000$  m.
- Choice B is correct.** (5.G.3) Total:  $50 \times 30 \times 15 = 22,500$  cu. ft. Half:  $22,500 \div 2 = 11,250$  cu. ft.
- Choice A is correct.** (5.D.1) Count the X marks above each height. The height  $2\frac{1}{4}$  cm has only 1 mark, so it is the least common.
- Choice D is correct.** (5.N.2) Dividing by 100 moves the decimal 2 places left:  $9.3 \rightarrow 0.93 \rightarrow 0.093$ .
- Choice B is correct.** (5.N.2) Compute each:  $A = 5 \times 5 \times 3 = 75$ ;  $B = 10 \times 10 \times 1 = 100$ ;  $C = 2 \times 5 \times 8 = 80$ ;  $D = 4 \times 5 \times 4 = 80$ . Only B gives  $100 \text{ cm}^3$ .
- Choice C is correct.** (5.A.1) Container volume:  $24 \times 8 \times 8 = 1536$  cubic feet. Items that fit:  $1536 \div 64 = 24$  items.
- Choice B is correct.** (5.N.3) Three copies of  $\frac{3}{7}$ :  $3 \times \frac{3}{7} = \frac{9}{7} = 1\frac{2}{7}$ .
- Choice A is correct.** (5.A.1) The smaller drawing covers  $\frac{4}{5} \times \frac{1}{2} = \frac{4}{10}$  of a full sheet. In simplest form,  $\frac{4}{10} = \frac{2}{5}$ .
- Choice A is correct.** (5.D.2) The quotient of 20 and 4 is  $20 \div 4$ . The phrase asks for the sum of 7 and that quotient, so use  $7 + 20 \div 4$ .
- Choice C is correct.** (5.D.2) Fastest: 49.5 seconds (Marcus). Slowest: 52.8 seconds (Jasmine). Difference:  $52.8 - 49.5 = 3.3$  seconds.
- Choice D is correct.** (5.A.1) Volume of a rectangular prism is length  $\times$  width  $\times$  height, so  $3 \times 4 \times 5$  is correct.
- Choice B is correct.** (5.A.1) Multiplying by 10,000 moves the decimal four places right. From 4.56, that gives 45,600.



### Lab Notes for a Future Scientist

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#### Dear Curious Scientist,

◇ 9 tests. Many experiments. Tons of data. You've been running a research project on yourself, and the results are clear: you are better at math today than you were when you started. That's what science calls progress, and you earned it. ◇

★ **What scientists know:** a failed experiment is still useful data. Every problem you missed taught you something. You used that data to adjust, retry, and improve. That's how science works. That's how you've been working. ★

#### Lab Results

- **Hypothesis:** CONFIRMED. Effort + practice = real growth.
- **Method:** STRONG. You try strategies, observe what works, and adjust.
- **Data Collection:** CAREFUL. You read carefully and copy numbers exactly.
- **Conclusion:** CONFIDENT. You're test-ready.

**Scientist's tip:** curious minds make great test-takers. On test day, be curious about each question. Ask, "What is this asking?" Ask, "What's the smartest way?" Then experiment, observe, and answer. You will do great.

If you want to share a proud moment or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com). I'd love to hear from you!

**Jay Daie**

Your Math Scientist (Keep Questioning)

# PRACTICE MORE. ACHIEVE MORE.

Give your child the edge they need to excel in **Grade 5 Math!** This book includes **9 full-length** practice tests designed to build confidence, sharpen skills, and improve test performance.

# 9

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PRACTICE  
TESTS**

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- ✓ Results-Driven.

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### Build Confidence

Familiar, focused practice reduces anxiety and boosts self-belief.



### Strengthen Skills

Reinforces key math concepts through high-quality, standards-aligned questions.



### Improve Test Readiness

Full-length tests help students understand test format, pacing, and question types.



### Track Progress

Identify strengths and target areas with purposeful practice.



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