

# 7

# Nebraska

## NSCAS Growth

# Grade 3 MATH

# PRACTICE TESTS

Standards-Aligned Practice with  
Review, Answer Keys, and Explanations



7 Full-Length  
Practice Tests



Standards-Aligned  
Math Practice



Detailed Answer Keys  
and Explanations



Build Confidence.  
Achieve Success.

PREPARE  
PRACTICE  
SUCCEED



# 7 Nebraska NSCAS Growth Grade 3 Math Practice Tests

*Standards-Aligned Practice with Review, Answer Keys, and Explanations*



Seven complete 30-question practice trails for Grade 3 math: operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome to the Seven Math Trails

Seven full tests, seven fresh chances, and one braver Grade 3 thinker



Read the trail. Mark the clues. Solve with care.

## To the Grade 3 Math Trail Leader

This book gives you seven complete practice trails for the Nebraska NSCAS Growth. Each trail is a full 30-question test, so students can practice accuracy, stamina, and clear explanations over time.

Nebraska has sandhill trails, prairie winds, river crossings, farm grids, and steady classroom habits, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and check the structure before calculating.

### Scout

Find what the problem is asking before you calculate.

### Solve

Pick an equation, model, array, graph, or number line.

### Prove

Check the answer and explain the thinking clearly.

**Seven-trail promise:** I will work with patience, use my scratch space wisely, and let every correction make my next test stronger.

# How to Use This Book

## A seven-trail routine for steady Grade 3 growth

Use one practice trail at a time. The goal is not to rush through more pages. The goal is to finish, check, repair, and bring a stronger habit to the next test. For Nebraska students, each trail moves through sandhill trails, prairie winds, river crossings, farm grids, and steady classroom habits: steady, alert, and ready for the next clue.

1. **Preview the tools.** Skim the reference page before each test.
2. **Take one test.** Work steadily and mark problems that need another look.
3. **Check the key.** Use the compact answer boxes first.
4. **Study explanations.** Read missed items and lucky guesses.
5. **Redo three problems.** Rewrite the work cleanly without copying.
6. **Name one habit.** Choose a focus such as labels, facts, fractions, or checking.
7. **Start the next trail.** Bring that habit into the next full test.

**Best review habit:** A missed problem is a trail marker. It shows where to slow down, look again, and choose a better step.



## What Is Inside?

Seven complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–7	Solve seven different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
Reference Materials	Review measurement and time facts before each test.	Keep common tools close without turning pages backward.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read why each answer works.	Turn missed items into a clear next step.
Standards Reference	See how Nebraska Grade 3 standards connect to practice.	Understand the skills behind the questions.

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. This gives students practice with quick decisions, careful reading, and short written math answers for the Nebraska NSCAS Growth path.



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For more practice  
& answers

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6) A baker makes cookies for a party. She has 40 cookies to put into boxes of 5. How many boxes does she need?

A. 6

C. 45

B. 7

D. 8

7) Ava reads 187 pages on Monday and 246 pages on Tuesday. How many pages does Ava read in total?

A. 433

C. 423

B. 434

D. 432

8) Priya has 8 packs of trading cards. Each pack has 6 cards. How many cards does she have in all?

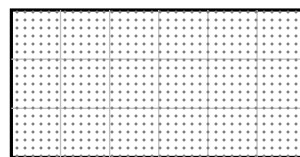
A. 42 cards

C. 56 cards

B. 14 cards

D. 48 cards

9) Ava eats 2 of 4 pizza slices. What fraction did she eat in simplest form?



3 units

6 units

10)

Use multiplication to find the area of the shaded rectangle.

A. 9 sq units

C. 18 sq units

B. 24 sq units

D. 36 sq units



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1) A rectangular badge is 4 inches by 6 inches. What is the total area of the badge?

- A. 20 sq in                       C. 24 sq in  
 B. 48 sq in                       D. 10 sq in

2) A picture graph shows coins saved. Each symbol is 5 coins. Ty saved 6 symbols, Kim saved 8 symbols. How many fewer coins does Ty have than Kim?

- A. 2 coins                               C. 15 coins  
 B. 10 coins                               D. 30 coins

3) Noah is designing a playground. He wants to cover a rectangular area using square meter mats. The playground is 10 meters by 7 meters. How many square meter mats will Noah need to cover the entire playground? Show your counting.



4) Two pies are the same size. Pie A is cut into 4 slices and 3 are eaten. Pie B is cut into 8 slices and 6 are eaten. How much pie is left in each case?

- A. Cannot tell without tasting.                       C. Pie B has more left.  
 B. The same amount left.                               D. Pie A has more left.

5) How many whole units does the shaded bar show?

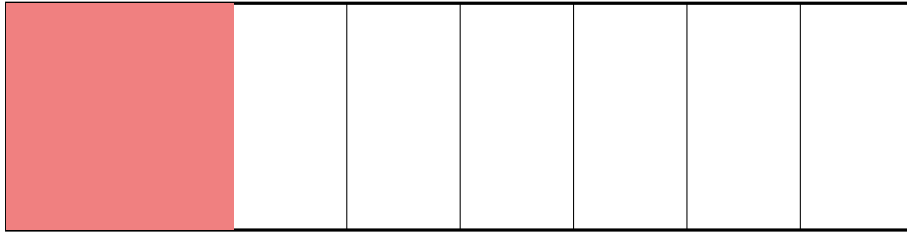


- A. 1     C. 6  
 B. 3     D. 2



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6) A rectangle is divided into 8 equal parts. Two parts are shaded.



If each shaded part is a unit fraction, what is the total shaded fraction?

- A.  $\frac{2}{8}$   
 B.  $\frac{1}{3}$

- C.  $\frac{2}{1}$   
 D.  $\frac{1}{8}$

7) Mia buys 8 bags of candy. Each bag has 3 candies. How many candies does Mia buy?

- A. 11  
 B. 16

- C. 18  
 D. 24

8) Amira has 15 beads. She wants to make 3 necklaces with equal beads. She knows  $3 \times 5 = 15$  helps her. How many beads in each necklace?

- A. 3 beads  
 B. 18 beads

- C. 15 beads  
 D. 5 beads

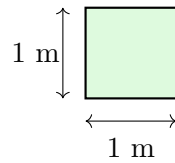
9) What is  $8 \times 7$ ?

- A. 48  
 B. 54

- C. 56  
 D. 63

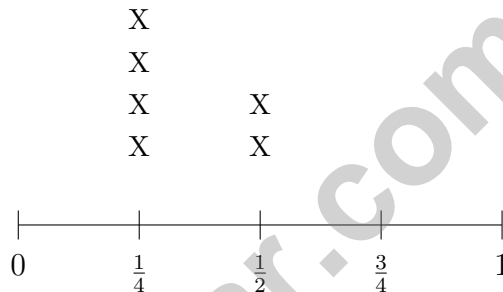


1) A unit square measured in meters has side length 1 m. What is the area?



- A. 1 meter
- B. 2 square meters
- C. 1 square meter
- D. 4 square meters

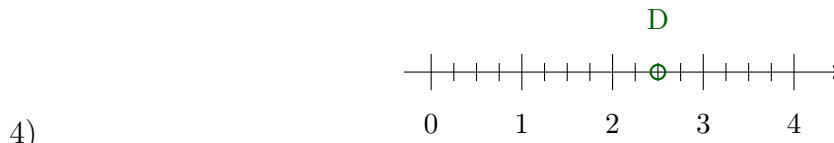
2) Ava measured rainfall amounts in inches:  $0, \frac{1}{4}, \frac{1}{2}, \frac{3}{4}, 1$ .



How many more days had  $\frac{1}{4}$  inch of rain than  $\frac{1}{2}$  inch of rain?

- A. 1 day
- B. 2 days
- C. 3 days
- D. 4 days

3) What fraction is the third tick on a number line split into 6 equal parts?



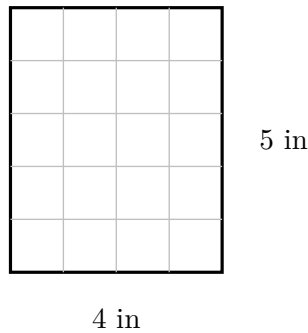
The number line from 0 to 4 is divided into fourths. Point  $D$  is shown. What mixed number is point  $D$ ?

- A.  $2\frac{1}{4}$                        C.  $2\frac{3}{4}$   
 B. 3                               D.  $2\frac{1}{2}$

5) What is  $542 - 218$ ?

- A. 334                               C. 314  
 B. 422                               D. 324

6) Find  $30 \div 5$ .



7)

Count the unit squares. What is the area of the rectangle?

- A. 9 sq in                               C. 25 sq in  
 B. 20 sq in                               D. 16 sq in



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## Practice Test Answer Keys

**How to use this section with a Grade 3 student:**

1. check the answer first
2. mark questions to try again
3. rework the problem before reading the full explanation

**A calm correction routine turns every missed item into useful practice.**

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## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** **(3.A.1)** Step 1: Remaining boxes:  $9 - 4 = 5$  boxes. Step 2: Crayons in remaining boxes:  $5 \times 10 = 50$  crayons. (Choice C is the answer to step 1 multiplied by 12; choice D is step 1 error times 10.)
- 2) **Choice C is correct.** **(3.G.3)** Multiply:  $400 \times 2 = 800$  g.
- 3) **Choice C is correct.** **(3.G.2)**  $10 \times 4 = 40$  unit square tiles are needed.
- 4) **Choice A is correct.** **(3.G.2)** Divide:  $36 \div 4 = 9$  books per shelf.
- 5) **Choice A is correct.** **(3.G.2)** Part A:  $8 \times 4 = 32$  sq units. Part B:  $6 \times 2 = 12$  sq units. Total:  $32 + 12 = 44$  sq units.
- 6) **Choice D is correct.** **(3.D.2)** Measurement division:  $40 \div 5 = 8$ . There are 8 groups of 5 in 40.
- 7) **Choice A is correct.** **(3.A.1)** Add:  $187 + 246 = 433$ . Ones:  $7 + 6 = 13$  (write 3, carry 1). Tens:  $8 + 4 + 1 = 13$  (write 3, carry 1). Hundreds:  $1 + 2 + 1 = 4$ .
- 8) **Choice D is correct.** **(3.D.2)** 8 packs with 6 cards each means 8 groups of 6. So  $8 \times 6 = 48$  cards.
- 9) **The correct answer is  $\frac{1}{2}$ .** **(3.N.2)**  $\frac{2}{4} = \frac{1}{2}$ .
- 10) **Choice C is correct.** **(3.A.1)** Area =  $6 \times 3 = 18$  square units. The dots show that all squares are included.
- 11) **The correct answer is 20.** **(3.A.1)** The row for 5 shows 10, 15, and then 20. Each number increases by 5 because we multiply 5 by 2, then 3, then 4. So  $5 + 5 = 10 + 5 = 15 + 5 = 20$ .
- 12) **Choice A is correct.** **(3.D.2)** The prompt tells us there is 1 note at  $2\frac{1}{2}$  beats.
- 13) **Choice C is correct.** **(3.N.2)**  $\frac{4}{1} = 4$ . Any number over 1 equals that number.
- 14) **Choice B is correct.** **(3.G.2)** The rectangle has width 5 and combined height  $2 + 2 = 4$ , so  $5 \times (2 + 2) = 20$ .
- 15) **Choice A is correct.** **(3.G.1.1)** Not all rectangles have equal sides. Only squares have all 4 sides equal. All rectangles do have 4 sides, 4 right angles, and opposite sides equal.
- 16) **Choice C is correct.** **(3.G.4)** The ones digit is 7. Since  $7 \geq 5$ , round up: 267 rounds to 270.
- 17) **Choices A and B are correct.** **(3.N.2)** The fact family for 5, 6, and 30 includes multiplication facts and related division facts. Options A ( $5 \times 6 = 30$ ) and B ( $30 \div 5 = 6$ ) are correct. C, D, and E are addition or subtraction statements, so they are not part of this multiplication/division fact family.
- 18) **Choice B is correct.** **(3.G.2)** Visual reasoning: same numerator (2), so both take 2 pieces. But  $\frac{2}{3}$  divides the whole into 3 parts (each third is large), while  $\frac{2}{6}$  divides into 6 parts (each sixth is small). Comparing shaded amounts: 2 large pieces  $>$  2 small pieces, so  $\frac{2}{3} > \frac{2}{6}$ .
- 19) **Choice C is correct.** **(3.G.2)** A  $6 \times 2$  arrangement of unit squares has area  $6 \times 2 = 12$  square units.
- 20) **Choice A is correct.** **(3.G.2)** The first of four equal parts is  $\frac{1}{4}$ .
- 21) **Choice D is correct.** **(3.A.1)**  $5 \times 4 = 20$  and  $5 \times 5 = 25$ , so  $20 + 25 = 45$ . This also equals  $5 \times 9 = 45$ .
- 22) **Choice B is correct.** **(3.G.4)**  $2 : 18 + 44 \text{ min} = 2 : 18 + 42 \text{ min} + 2 \text{ min} = 3 : 00 + 2 \text{ min} = 3 : 02 \text{ PM}$ .
- 23) **The correct answer is 24 square inches.** **(3.G.2)**  $8 \times 3 = 24$  square inches.
- 24) **Choice A is correct.** **(3.G.1.1)** Pencils:  $6 \times 2 = 12$ . Erasers:  $4 \times 2 = 8$ . Total:  $12 + 8 = 20$ .
- 25) **Choice B is correct.** **(3.A.1)** Two unit fractions of  $\frac{1}{6}$  are being added:  $\frac{1}{6} + \frac{1}{6} = \frac{2}{6}$ . So there are 2 unit fractions.
- 26) **Choice C is correct.** **(3.G.2)** The denominator was multiplied by 2 (from 4 to 8). Multiply the numerator by 2:  $3 \times 2 = 6$ . So  $\frac{3}{4} = \frac{6}{8}$ .
- 27) **Choice C is correct.** **(3.A.1)** Multiply  $7 \times 6 = 42$ , then add one zero:  $7 \times 60 = 420$ .
- 28) **Choice A is correct.** **(3.A.1)** Area = length  $\times$  width =  $8 \times 6 = 48$  square feet.
- 29) **Choice C is correct.** **(3.N.2)**  $\frac{3}{4}$  means 3 out of 4 parts, which is the third tick mark from 0.
- 30) **Choice A is correct.** **(3.A.1)** Think:  $32 \div 8 = 4$ . Check:  $8 \times 4 = 32$ .

### Practice Test 2 Answers and Explanations



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## Hi, Brave Trail-Walker!

◇ You walked all 7 miles of the practice trail. Smooth paths, steep climbs, narrow passes. Every step taught you something. ◇

★ **Trail guides know:** the most important thing is to keep moving. Slow steps still get you there. You have a steady stride now. ★

### Trail Survey

- **Route Knowledge:** You know lots of problem types.
- **Steady Pace:** You don't rush. You don't stop.
- **Pack Loaded:** You have all the math tools you need.
- **Confidence:** You trust your training.

**Guide's tip:** on test day, stay on the trail you've walked before. Use the strategies you've practiced. Trust the route. The summit is one steady walk away!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Trail Guide

# PRACTICE TODAY. MASTER TOMORROW.

This book is designed to help **Grade 3** students strengthen their math skills through focused practice and real progress.

- ✓ 7 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success
- ✓ Review, answer keys, and explanations



## EACH PRACTICE TEST INCLUDES:



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Aligned  
Questions



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Question  
Types



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