

3

Nebraska

NSCAS Growth

GRADE 3

MATH PRACTICE TESTS

Standards-Aligned
Practice for Stronger
Math Skills and
Test Readiness



Build Confidence
with Targeted Practice



Strengthen Skills
in Key Math Concepts



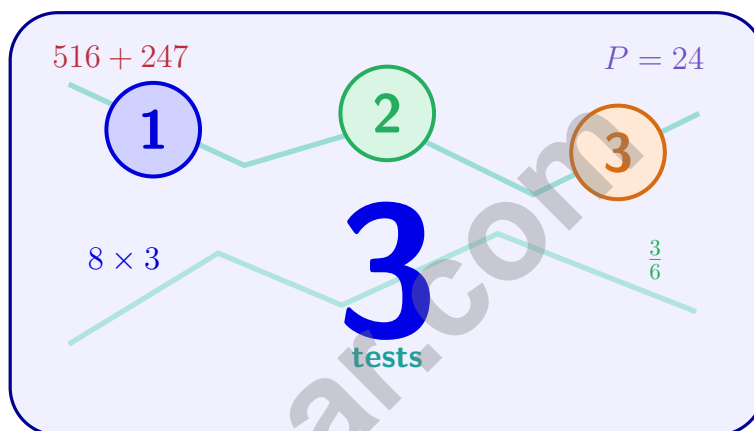
Improve Test Readiness
with Realistic Practice

Be Ready.
Do Your Best!



3 Nebraska NSCAS Growth Grade 3 Math Practice Tests

Standards-Aligned Practice for Stronger Math Skills and Test Readiness



Three 30-question trail tests packed with Grade 3 review, Nebraska NSCAS Growth strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

Jay Daie and Reza Nazari



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Welcome to the Nebraska Math Trail

Three tests, one trail, and a stronger Grade 3 thinker at the end



To the Grade 3 Trail Scout

This book is your practice trail for the Nebraska NSCAS Growth. You will multiply and divide, read graphs, work with fractions, measure time, find area, and explain your thinking – one trail marker at a time.

Some problems will feel quick, like a clear stretch of wide open trail. Some will ask you to slow down, draw, count, or try again. That slow part is where strong math grows. Every page gives your brain another chance to spot, choose, and build.

Spot

Read carefully and find what the problem is really asking.

Sketch

Use numbers, arrays, number lines, or labels to make your thinking visible.

Signal

Check that your answer makes sense before you wave the next question on.

Trail promise: I will read like a tracker, sketch like a planner, and check like a careful scout. I do not have to be perfect to keep moving forward.

How to Use This Book

A four-step trail plan that turns practice into progress

Step 1: Pack Your Pack

Read the Quick Review first.
Wake up the Grade 3 ideas you will need before you set foot on the trail.

Step 2: Hit the Trail

Take one full test.
Thirty questions. Pencil sharp, work shown, calm pace – one marker at a time.

Step 3: Campfire Check

Check answers honestly.
Circle missed questions. Star any problem that felt confusing – those are tomorrow’s clues.

Step 4: Track Back

Fix a few mistakes.
Read the explanation, rework the problem, and carry that lesson up the next stretch of trail.

A Three-Week Trail Plan

Week 1	Hike Test 1. Map what feels strong and what needs a second look.
Week 2	Hike Test 2. Sharpen the habits: read slow, sketch the model, label every number.
Week 3	Hike Test 3. Bring everything – facts, models, checks, and calm focus.

Best trail habit: Do not only ask, “What did I score?” Ask, “What did I learn how to do better?”



Test Overview

What waits on the trail and what each practice test builds

Each practice test has 30 questions. Together they walk you through the kind of math thinking the Nebraska NSCAS Growth asks Grade 3 students to use: read carefully, choose a strategy, show work, and check whether an answer makes sense.

Selected-Response Questions

Pick the best answer from the choices. Strong scouts estimate first, cross out answers that cannot be right, and reread the question before circling.

Open-Ended Questions

Write the answer and show the thinking. A clear response uses neat numbers, helpful labels, and a short model or explanation.

Grade 3 Ideas You Will Meet on the Trail

- multiplication, division, arrays, equal groups, and fact fluency
- rounding, adding, subtracting, and multiplying by multiples of 10
- fractions, number lines, equivalent fractions, and comparing fractions
- time, mass, liquid volume, picture graphs, bar graphs, and line plots
- area, perimeter, unit squares, rectangles, and shapes
- two-step word problems and explaining a solution path

What strong NSCAS Growth work looks like: the scout reads the whole problem, picks a sensible strategy, writes numbers neatly, labels the answer, and checks that the answer truly fits the question.

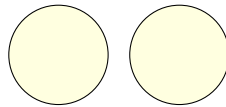


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- 1) Noah has 18 crayons and 2 friends. He divides the crayons equally among his friends and himself. How many crayons does each person get?
- A. 9 C. 20
 B. 16 D. 6
- 2) Mia tiles a rectangle that is 3 tiles wide and 6 tiles tall. Jordan tiles a rectangle that is 2 tiles wide and 9 tiles tall. Whose rectangle has a bigger area?
- A. Mia's rectangle C. They have the same area
 B. Jordan's rectangle D. Cannot tell from this information
- 3) There are 18 apples in a basket. 7 apples are eaten. Then 4 new apples are added. How many apples are in the basket now?
- A. 11 C. 15
 B. 14 D. 18
- 4) A rectangle is 9 unit squares long and 2 unit squares wide. How many unit squares cover it?
- A. 9 unit squares C. 6 units
 B. 18 unit squares D. 16 units
- 5) The shaded circles show $\frac{2}{1}$. Which picture matches?

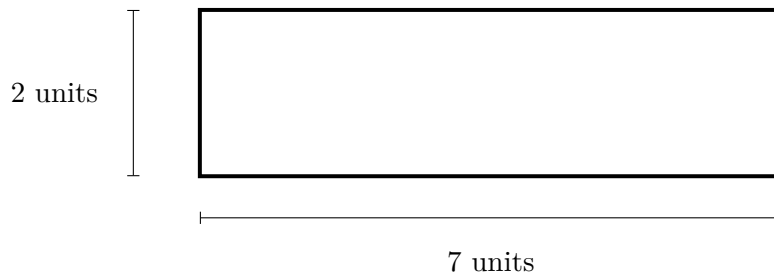


Two whole circles

- A. Two circles, one shaded C. Two circles, both fully shaded
 B. One circle shaded D. One circle divided in half



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6)

What is the perimeter?

- A. 9 units C. 28 units
 B. 18 units D. 35 units

7) A rectangle is divided with 2 vertical lines making 3 equal columns. What fraction of the rectangle is 2 columns?



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

8)

Original	Rounded to 10	Rounded to 100
289	290	?

Complete the table: What is 289 rounded to the nearest 100?

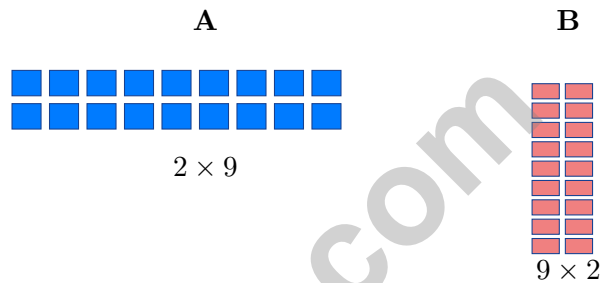
- A. 200 C. 290
 B. 280 D. 300



What is the product shown by this array?

- A. 10
- B. 8
- C. 6
- D. 12

10) Which statement about these two arrays shows the commutative property?



- A. The arrays show the same property as $9 - 2$.
- B. $2 + 9 = 11$ and $9 + 2 = 11$
- C. Array B has more squares.
- D. $2 \times 9 = 9 \times 2$

11) Which two products are equal to each other?

- A. 3×80 and 8×30
- B. 4×50 and 5×50
- C. 6×40 and 8×20
- D. 7×10 and 7×20

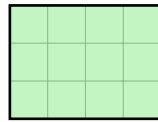
12) Eli ate $\frac{3}{3}$ of a granola bar. Mia ate $\frac{2}{3}$ of a granola bar of the same size. Who ate more?

- A. Eli
- B. Mia
- C. They ate the same amount
- D. Cannot compare the fractions



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1) This grid shows a shape made of unit squares.



What is the area?

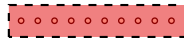
- A. 12 sq units
 - B. 10 sq units
 - C. 14 sq units
 - D. 7 sq units
- 2) Jasmine collects 24 stickers and her sister gives her 12 more. If they arrange the stickers into 4 equal groups, how many stickers are in each group?

- A. 6
 - B. 8
 - C. 9
 - D. 36
- 3) Which picture shows 10 items divided equally into 5 groups?

A. Two groups of five



B. One group of ten



C. Ten groups of one



D. Five groups of two



4) A rectangular poster has dimensions of 11 inches by 8 inches. What is the area of the poster?

- A. 88 square inches
- B. 38 square inches
- C. 19 square inches
- D. 99 square inches

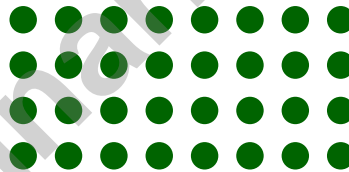
5) A number line from 0 to 1 has 6 tick marks total, including 0 and 1. How many equal parts are there?

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

6) Which shape is NOT a quadrilateral?

- A. Parallelogram
- B. Triangle
- C. Rhombus
- D. Square

7) An array has 4 rows and \square columns. There are 32 dots in total. What is the unknown?



$$4 \times \square = 32$$

- A. 6
- B. 7
- C. 9
- D. 8

8)

Number	Round to 10	Round to 100
156	160	?

Fill in the blank: 156 rounded to the nearest 100 is _____.

- A. 150
- B. 160
- C. 200
- D. 156



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1) There are 3 tables. Each table has 9 children sitting at it. How many children are there altogether?

A. 6

C. 30

B. 12

D. 27

2) A picture graph shows ribbons. Each star represents 2 ribbons. Blue ribbons: 5 stars. Red ribbons: 3 stars. How many more blue ribbons than red?

A. 2

C. 6

B. 4

D. 10

3) Sam says: " $\frac{4}{8} > \frac{4}{6}$ because 8 is bigger than 6." Is Sam right?

A. Yes, Sam is right

C. No, the fractions are equal

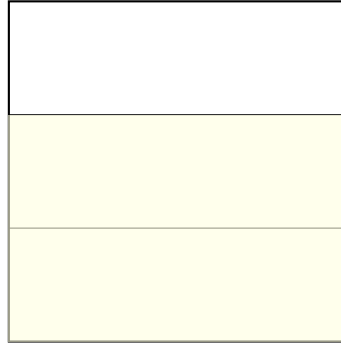
B. No, Sam got the rule backwards

D. Cannot tell from the fractions

4) If $\frac{1}{3} = \frac{2}{6}$, what numerator goes with denominator 6?



- 5) A square is divided into 3 equal parts. Sam colors $\frac{2}{3}$ of the square. How many parts does he color?



- A. 1 part C. 3 parts
 B. 2 parts D. 0 parts
- 6) Which situation can be represented by $12 \div 3$?
- A. 12 multiply by 3 D. 12 items shared equally among 3 groups
 B. 3 subtract from 12
 C. How many groups of 3 make 12
- 7) $245 + 318 = ?$
- A. 563 C. 573
 B. 572 D. 562
- 8) Ava cut a candy bar into thirds. She has $\frac{15}{3}$ pieces. How many whole candy bars did she start with?
- A. 3 C. 15
 B. 5 D. 10



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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 builds stronger math habits.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** (3.G.2) Noah, his 2 friends = 3 people total. Divide: $18 \div 3 = 6$ crayons each.
- 2) **Choice C is correct.** (3.G.2) Mia: $3 \times 6 = 18$ square units. Jordan: $2 \times 9 = 18$ square units. Different dimensions, same area—shows that tiling result depends on both dimensions, not just one.
- 3) **Choice C is correct.** (3.A.1) Step 1: After eating: $18 - 7 = 11$ apples. Step 2: Add new: $11 + 4 = 15$ apples. (Choice A is step 1 only.)
- 4) **Choice B is correct.** (3.G.2) There are 2 rows with 9 unit squares in each row: $9 \times 2 = 18$ unit squares.
- 5) **Choice C is correct.** (3.N.2) $\frac{2}{1}$ means 2 wholes. The picture shows two complete shaded circles.
- 6) **Choice B is correct.** (3.G.2) $P = 2(7) + 2(2) = 14 + 4 = 18$ units.
- 7) **Choice B is correct.** (3.G.2) Two columns out of three equal columns is $\frac{2}{3}$.
- 8) **Choice D is correct.** (3.G.4) The tens digit is 8. Since $8 \geq 5$, round up: 289 rounds to 300.
- 9) **Choice D is correct.** (3.D.2) The array shows 6 columns and 2 rows. So $6 \times 2 = 12$ or $2 \times 6 = 12$.
- 10) **Choice D is correct.** (3.A.1) These arrays show the commutative property. One has 2 rows and 9 columns, and the other has 9 rows and 2 columns, but both have 18 squares total.
- 11) **Choice A is correct.** (3.A.1) $3 \times 80 = 240$ and $8 \times 30 = 240$. Both equal 240. The other pairs have different products.
- 12) **Choice A is correct.** (3.G.2) Eli ate the whole bar because $\frac{3}{3} = 1$. Mia ate less than the whole bar, so Eli ate more.
- 13) **Choice A is correct.** (3.A.1) To find the number of bags, divide the total marbles by the marbles in each bag: $72 \div 8 = 9$.
- 14) **Choice B is correct.** (3.G.1.1) Class A: $5 \times 10 = 50$. Class B: $3 \times 10 = 30$. Difference: $50 - 30 = 20$.
- 15) **Choice D is correct.** (3.A.1) $63 \div 9 = 7$ because $7 \times 9 = 63$. This is related to the multiplication fact.
- 16) **Choices A and C are correct.** (3.G.1.1) Both squares and rectangles are defined by having exactly 4 right angles. Rhombuses do not require right angles (only equal sides). Trapezoids and general parallelograms do not need right angles.
- 17) **Choice C is correct.** (3.N.2) On the number line, $\frac{4}{6}$ is to the right of $\frac{3}{6}$ (which equals $\frac{1}{2}$), so $\frac{4}{6} > \frac{1}{2}$.
- 18) **Choice A is correct.** (3.A.1) Ones: $0 - 5$ requires regrouping, so $10 - 5 = 5$. Tens: $4 - 2 = 2$. Hundreds: $7 - 3 = 4$. Answer: 425.
- 19) **Choice B is correct.** (3.G.4) From 2 : 35 to 3 : 05 spans 2 intervals on the number line: $15 + 15 = 30$ minutes.
- 20) **Choice A is correct.** (3.G.2) Add all three parts: $12 + 9 + 9 = 30$ square units.
- 21) **Choice B is correct.** (3.A.1) The diagram shows length 4 and width 3. Area = $4 \times 3 = 12$ square units. You can also add: $3 + 3 + 3 + 3 = 12$ (four rows of three).
- 22) **The correct answer is 25 unit squares.** (3.G.2) A square with side length 5 inches has area $5 \times 5 = 25$ square inches, which equals 25 unit squares.
- 23) **Choice D is correct.** (3.A.1) Area = length \times width = $8 \times 7 = 56$ square inches.
- 24) **The correct answer is 36 square units.** (3.G.2) Count the square units by rows: $6 \times 6 = 36$ square units.
- 25) **Choice A is correct.** (3.N.2) The array has 5 columns and 20 dots total, so $20 \div 5 = 4$ dots in each column.
- 26) **The correct answer is 0.** (3.A.1) All numbers in this pattern are even because we're multiplying 4 (an even number) by 1, 2, 3, etc. Since 4 is even, every multiple of 4 is even. There are no odd numbers.
- 27) **Choice C is correct.** (3.D.2) Add all X's: $2 + 3 + 2 + 1 = 8$ pencils total.
- 28) **Choice D is correct.** (3.D.2) Sharing equally among people is division. Each person gets $30 \div 5 = 6$ items.
- 29) **Choice A is correct.** (3.G.2) $\frac{5}{6}$ is much closer to 1 (the right end) than $\frac{1}{6}$ is.
- 30) **Choice A is correct.** (3.G.3) $10 \text{ kg} = 10000 \text{ g}$, which is more than 3000 g.

Practice Test 2 Answers and Explanations



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Notes From the Math Gardener

Hi, Math Gardener!

◇ Look at how much you grew! 3 tests is like 3 weeks of taking care of your math garden. Every problem was a seed. Every try was water. ◇

★ **Gardeners say:** growth takes time. You can't see roots, but they are there. You can't always feel smarter, but you are. Your math garden is full! ★

Garden Check-Up

- **Roots:** STRONG! Your basic math is solid.
- **Stems:** STURDY! You can do step-by-step problems.
- **Leaves:** GREEN! You have lots of math tools.
- **Flowers:** BRIGHT! You feel proud of your work.

Gardener tip: keep watering your math garden long after the test. Every habit you built will grow with you for years!

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

Jay Daie

Your Math Gardener

3 GRADE 3 MATH PRACTICE TESTS

Practice Today. Succeed Tomorrow!



Give your child the tools to build strong math skills and test confidence!

This book includes 3 full-length Grade 3 Math practice tests that mirror real test formats and cover all key math standards. With a wide range of question types and real-world problems, students will gain the practice and confidence they need to do their best!

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Questions designed to cover essential Grade 3 math standards.



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Real-World Applications

Engaging problems that connect math to everyday life.



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- ✓ Geometry
- ✓ Measurement & Data
- ✓ Number Patterns
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- ✓ Ratio & Proportion
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- ✓ Graphing & Data Analysis
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PRACTICE. PREPARE. SUCCEED.