

4

Nebraska NSCAS Growth

Grade 3

MATH

PRACTICE TESTS

Standards-Aligned Practice



STANDARDS-ALIGNED

Practice to build skills and boost confidence



4 FULL-LENGTH TESTS

Realistic questions to prepare for test day



ANSWER KEYS & EXPLANATIONS

Detailed solutions to learn and improve



4 Nebraska NSCAS Growth Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Four focused 30-question missions for Grade 3 math: number facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

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Welcome to the Nebraska Math Launch

Four missions, careful work, and a stronger Grade 3 thinker



Read the mission. Show the work. Check the answer. Launch again.

To the Grade 3 Mission Leader

This book is a four-mission practice launch for the Nebraska NSCAS Growth. Each test gives you a fresh chance to multiply, divide, read graphs, compare fractions, measure, find area, and explain math in a way someone else can follow.

Nebraska has prairie routes, crane migrations, and long views that make patterns easier to see. Good math uses the same habit: pause, check the details, and move forward with a steady plan.

Notice

Find the numbers, units, and question before choosing a path.

Model

Draw an array, number line, table, or quick equation.

Verify

Ask whether your answer fits the story and the unit.

Launch promise: I will slow down at the important moments, show the work I can, and use every miss as a clue for the next mission.

How to Use This Book

A four-mission routine for steady Grade 3 growth

1. Warm Up the System

Read the review pages first. Remind your brain how equal groups, fractions, clocks, graphs, and area models work.

2. Fly One Mission

Take one complete 30-question test. Keep your work neat enough that you can check it later.

3. Review the Flight

Use the answer key, then pause. A wrong answer is useful when you can name what happened.

4. Repair and Relaunch

Rework a few missed questions before starting the next test. The repair step is where the score begins to move.

A Four-Session Plan

Session 1	Take Test 1 and mark the topics that need attention.
Session 2	Take Test 2 and focus on showing every step clearly.
Session 3	Take Test 3 and watch for units, labels, and two-step problems.
Session 4	Take Test 4 and finish with calm, careful checking.

Best mission habit: After checking answers, write one sentence: “Next time I will pay attention to _____.”



Test Overview

What each Grade 3 math mission asks you to do

Each practice test has 30 questions. Across four tests, you will practice the kind of Grade 3 math thinking used on the Nebraska NSCAS Growth: reading carefully, choosing a strategy, doing accurate computation, and explaining enough work to make your answer clear.

Multiple Choice

Look for the best answer. Estimate first when you can, cross out choices that do not fit, and reread the question before you choose.

Open Response

Write the answer and show the reason. A good Grade 3 response may use a drawing, equation, table, number line, or a few clear words.

Math Ideas Inside the Four Tests

- multiplication, division, arrays, missing factors, and two-step word problems
- place value, rounding, addition, subtraction, and multiplying by tens
- unit 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 shape categories

What strong NSCAS Growth work looks like: the answer matches the question, the units make sense, and the work is clear enough to check.

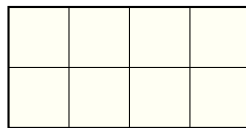


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- 1) Mia colors part of a circle. She colors $\frac{3}{6}$ red and $\frac{1}{2}$ blue on two identical circles. Which statement is true?
- A. She colored more blue. C. She colored the same amount.
 B. Blue and red use different shapes. D. She colored more red.
- 2) Ben has a number line where each unit fraction part is $\frac{1}{6}$. How many parts fit in the interval from 0 to 1?
- A. 4 C. 6
 B. 5 D. 7
- 3) Which list shows the multiples of 4 from 1 to 20?
- A. 1, 5, 9, 13, 17 C. 2, 6, 10, 14, 18
 B. 3, 7, 11, 15, 19 D. 4, 8, 12, 16, 20
- 4) A school has 72 students going on a field trip. They are divided equally into 8 buses. Then 6 more students join one bus. How many students are on that bus now?
- A. 9 C. 15
 B. 10 D. 24
- 5) How many unit squares ($1\text{ cm} \times 1\text{ cm}$) are needed to cover a 4 cm by 2 cm rectangle?



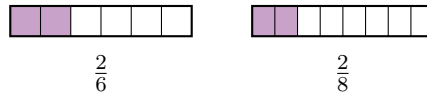
4 cm

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



6) Why do we add a zero when we multiply 8×40 ?

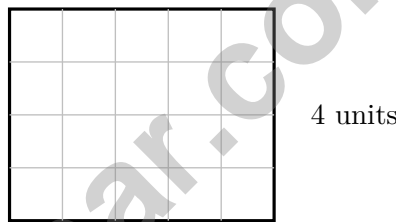
- A. Because 40 has a zero in it.
- B. Because $40 = 4 \times 10$, and we multiply by 10 at the end.
- C. Because we always add a zero when multiplying.
- D. Because the answer needs to be bigger.



7)

Which is true?

- A. $\frac{2}{6} < \frac{2}{8}$
- B. $\frac{2}{6} > \frac{2}{8}$
- C. $\frac{2}{6} = \frac{2}{8}$
- D. $\frac{2}{8} > \frac{2}{6}$



8)

5 units

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

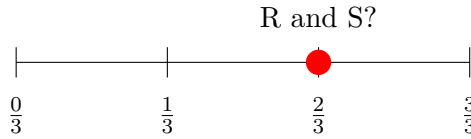
9) Which multiplication fact helps solve $42 \div 7$?

- A. $6 \times 7 = 42$
- B. $7 \times 7 = 49$
- C. $5 \times 7 = 35$
- D. $8 \times 7 = 56$

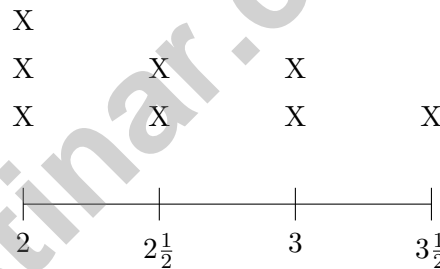


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- 1) Two identical number lines go from 0 to 1. Point R is at $\frac{4}{6}$. Point S is at $\frac{2}{3}$. Are they at the same location?



- A. No, R is left of S. C. Yes, at the same spot.
- B. No, S is left of R. D. The lines are different.
- 2) Noah uses $3 \times (4 + 5)$. Which shows this same problem using the distributive property?
- A. $(3 \times 4) + (3 \times 5)$ C. $(3 + 4) \times 5$
- B. $3 + 4 + 5$ D. $3 + (4 + 5)$
- 3) A line plot shows button diameters in inches: $2, 2\frac{1}{2}, 3, 3\frac{1}{2}$.



What is the most common button diameter?

- A. 2 inches C. 3 inches
- B. $2\frac{1}{2}$ inches D. $3\frac{1}{2}$ inches
- 4) Lily bakes 36 cupcakes. She divides them equally into 4 boxes. She sells 2 boxes. How many cupcakes does she have left?
- A. 9 C. 27
- B. 18 D. 36



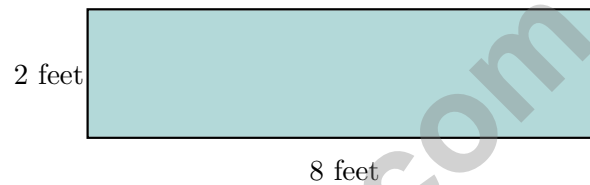
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5) Noah loses 3 of 6 marbles. What fraction did he lose in simplest form?

6) A pizza is cut into 8 equal slices. What fraction represents one slice?

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

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



7)

A rectangular bench top is 8 feet long and 2 feet wide. What is the area?

- A. 10 sq ft
 B. 16 sq ft

- C. 20 sq ft
 D. 40 sq ft

8) Round 756 to the nearest 100.

- A. 700
 B. 750

- C. 756
 D. 800

9) A school library has 456 books. The librarian buys 244 more books. How many books are in the library now?

- A. 700
 B. 701

- C. 690
 D. 711



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 C is correct.** **(3.G.A.1)** A square, rhombus, and rectangle are all parallelograms (opposite sides parallel and equal). A trapezoid has only one pair of parallel sides, so it is not a parallelogram.
- 2) **Choice A is correct.** **(3.MD.C.7d)** Left: $4 \times 6 = 24$ sq units. Right: $3 \times 4 = 12$ sq units. Total: $24 + 12 = 36$ sq units.
- 3) **Choice C is correct.** **(3.MD.C.7a)** $5 \times 6 = 30$ square units.
- 4) **Choice D is correct.** **(3.MD.B.3)** First: $4 \times 3 = 12$. Second: $5 \times 3 = 15$. Total: $12 + 15 = 27$.
- 5) **Choice A is correct.** **(3.NF.A.2a)** Two equal parts gives unit fraction $\frac{1}{2}$.
- 6) **Choice C is correct.** **(3.MD.B.4)** Shorter than $4\frac{1}{2}$ inches means 4 and $4\frac{1}{4}$ inches: that is $2 + 1 = 3$ pots.
- 7) **Choice B is correct.** **(3.NF.A.3b)** Multiply numerator and denominator by 2: $\frac{1 \times 2}{3 \times 2} = \frac{2}{6}$.
- 8) **Choice C is correct.** **(3.MD.C.5)** Square: $8 \times 8 = 64$ square units. Rectangle: $4 \times 16 = 64$ square units. Many different shapes can have the same area.
- 9) **Choice C is correct.** **(3.MD.A.2)** 1 L = 1000 mL. Subtract: $1000 - 750 = 250$ mL.
- 10) **Choice A is correct.** **(3.OA.A.3)** Use division: $45 \div 5 = 9$ inches. Check: $9 \times 5 = 45$ square inches. ✓
- 11) **Choice D is correct.** **(3.OA.D.9)** Skip counting by 2 always gives even numbers: 2, 4, 6, 8, 10, ...
- 12) **Choice D is correct.** **(3.OA.B.6)** $30 \div 5 = \square$ means $\square \times 5 = 30$. Since $6 \times 5 = 30$, there are 6 cookies in each bag.
- 13) **Choices A and E are correct.** **(3.NF.A.3a)** A: $\frac{1}{2} = \frac{2}{4}$ (both represent one-half of an identical shape). E: $\frac{4}{8} = \frac{1}{2}$ (both represent one-half of an identical shape). B is false: $\frac{2}{3} \neq \frac{3}{4}$ (two-thirds \neq three-fourths). C is false: $\frac{1}{3} \neq \frac{2}{8}$ (one-third \neq one-quarter). D is false: $\frac{3}{6} = \frac{1}{2}$ but $\frac{2}{3}$ is different.
- 14) **Choice A is correct.** **(3.NBT.A.2)** $378 + 215$: ones $8 + 5 = 13$ (write 3, carry 1), tens $7 + 1 + 1 = 9$, hundreds $3 + 2 = 5$. Answer: 593.
- 15) **Choice D is correct.** **(3.OA.A.1)** 3 boxes with 7 pencils in each box means 3 groups of 7. So $3 \times 7 = 21$ pencils.
- 16) **Choice A is correct.** **(3.MD.C.7c)** Both smaller rectangles need the same 6-unit side. Then the other sides, 4 and 3, join to make the full rectangle.
- 17) **Choice A is correct.** **(3.NF.A.2b)** Four hops of $\frac{1}{4}$ each = $4 \times \frac{1}{4} = 1$. The frog lands at 1.
- 18) **Choice A is correct.** **(3.MD.C.7)** Area = $8 \times 3 = 24$ square feet.
- 19) **The correct answer is 68.** **(3.OA.D.8)** $7 \times 9 = 63$, and $63 + 5 = 68$.
- 20) **Choice B is correct.** **(3.MD.C.7b)** Representing area as a rectangular array: multiplying the number of unit squares across (6) by the number down (3) gives $6 \times 3 = 18$ square units. Choice A (9) is the sum; C (18) is correct but inefficient for Grade 3 (repeated addition); D (18) arrives at correct answer but uses wrong factors.
- 21) **Choice B is correct.** **(3.MD.C.5a)** $2 \times 4 = 8$ unit squares. Option A is 6, C is 4, D is 9.
- 22) **Choice D is correct.** **(3.NBT.A.1)** The tens digit is 5. Since $5 \geq 5$, round up: 751 rounds to 800.
- 23) **Choice D is correct.** **(3.MD.C.6)** Area of a square = $7 \times 7 = 49$ square meters.
- 24) **Choice C is correct.** **(3.NF.A.3)** The shaded regions match. $\frac{2}{3}$ and $\frac{4}{6}$ are equivalent.
- 25) **Choice C is correct.** **(3.MD.C.5b)** Count the rows: 4 rows with 5 unit squares in each row. Total: $5 + 5 + 5 + 5 = 20$ unit squares. Area is 20 square units.
- 26) **The correct answer is 4.** **(3.OA.A.4)** In a fact family, if $4 \times 8 = 32$, then $32 \div 8 = 4$. Multiplication and division are inverse operations.
- 27) **Choice A is correct.** **(3.NF.A.1)** The circle is divided into 4 equal parts. One part is shaded, so the unit fraction is $\frac{1}{4}$ (one-fourth).
- 28) **The correct answer is 60.** **(3.NBT.A.3)** 6 boxes of 10 crayons = $6 \times 10 = 60$ crayons.
- 29) **Choice A is correct.** **(3.MD.A.1)** At 8 : 42, the minute hand is between 8 and 9, and the hour hand is between 8 and 9 closer to 9. Option A shows this correctly.
- 30) **Choice D is correct.** **(3.OA.B.5)** The area model shows two rectangles: $6 \times 3 = 18$ and $6 \times 2 = 12$. Adding them: $18 + 12 = 30 = 6 \times 5$.



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Star Player Pep Talk

Hi, Star Player!

◇ 4 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 4 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

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