

9

$$256 \div 8 = 32$$



$$48 \times 7 = 336$$

North Dakota NDSA

GRADE 4

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



**9 FULL-LENGTH
PRACTICE TESTS**



**STANDARDS-ALIGNED
REVIEW**



**MIXED PRACTICE
BUILD SKILLS & CONFIDENCE**



**ANSWER KEY
FOR ALL TESTS**



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



$$725 - 358 = 367$$

PREPARE
PRACTICE
SUCCEED
PERFORM

**PRACTICE TODAY.
SUCCEED TOMORROW.**

9 North Dakota NDSA Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine complete 30-question Grade 4 practice rounds for NDSA, built around prairie trails, badland colors, and steady reading habits, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, North Dakota Math Explorer!

Nine steady rounds on the Peace Garden State math route

This book gives you nine full Grade 4 practice tests for NDSA. Each round uses prairie trails, badland colors, and steady reading habits to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

North Dakota Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

How to Use This Book

A ten-session routine for North Dakota NDSA review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the Peace Garden State math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

Good rhythm: Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



What Is Inside?

Nine tests, 270 questions, and a full NDSA review path

| Part | What You Will Practice |
|--------------|---|
| Tests 1–3 | Warm-up rounds for reading carefully, choosing operations, and using models. |
| Tests 4–6 | Skill-building rounds with fractions, measurement, area, data, and two-step problems. |
| Tests 7–9 | Stamina rounds for mixed review, neat work, and flexible strategies. |
| Answer Pages | Compact keys and explanations that show why each answer works. |

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



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& answers

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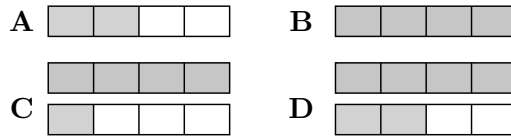
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1) Write $\frac{5}{10}$ as an equivalent fraction with denominator 100.

- A. $\frac{5}{100}$
 B. $\frac{50}{100}$

- C. $\frac{500}{100}$
 D. $\frac{50}{10}$

2) Which model shows 6 unit fractions of $\frac{1}{4}$ that equal $\frac{6}{4}$?



- A. Picture A
 B. Picture B

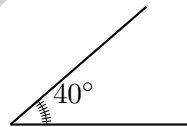
- C. Picture C
 D. Picture D

3) Sam read 234 pages of a book on Monday. On Tuesday, he read 189 more pages. How many pages did he read in total?

- A. 423 pages
 B. 413 pages

- C. 424 pages
 D. 333 pages

4)



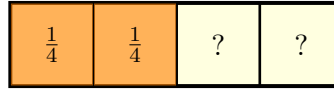
An angle turns through 40 one-degree angles. What is the measure of this angle?

- A. 40°
 B. 41°

- C. 39°
 D. 80°



5)



The bar shows $\frac{2}{4}$ shaded. If you have 4 such bars, what is the total shaded amount?

- A. $\frac{8}{4}$ (or 2) C. $\frac{4}{4}$
 B. $\frac{2}{16}$ D. $\frac{6}{4}$

6) Which fractions are greater than $\frac{1}{2}$?

- A. $\frac{4}{10}$ and $\frac{3}{8}$ C. $\frac{2}{5}$ and $\frac{3}{6}$
 B. $\frac{5}{8}$ and $\frac{6}{10}$ D. $\frac{1}{3}$ and $\frac{2}{4}$

7) Look at the numbers: 1,111, 2,222, 3,333. In each number, the value of the digit in the thousands place is how many times the value of the digit in the hundreds place?

- A. 1 time C. 100 times
 B. Equal D. 10 times

8) Use this place-value table to convert 40,506 to word form:

| Ten-Thousands | Thousands | Hundreds | Tens | Ones |
|---------------|-----------|----------|------|------|
| 4 | 0 | 5 | 0 | 6 |

- A. Forty thousand, fifty-six C. Forty thousand, five hundred sixty
 B. Four hundred thousand, five hundred six D. Forty thousand, five hundred six hundred six

9) What is $2,156 \div 2$?

- A. 1,078 C. 1,088
 B. 1,068 D. 1,058



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10) What is $5\frac{3}{10} - 2\frac{7}{10}$?

A. $2\frac{4}{10}$

B. $2\frac{5}{10}$

C. $2\frac{6}{10}$

D. $3\frac{2}{10}$

11) Which shows the error in this student work? The student said $\frac{1}{4} + \frac{1}{4} = \frac{2}{8}$.

A. Should not add fractions with same denominators

B. Adding the numerators and denominators separately (mistake)

C. The correct answer is $\frac{2}{4}$, not $\frac{2}{8}$

D. Cannot add fractions at all

12) A quadrilateral has two pairs of parallel sides and four right angles, but the sides are not all equal. What is it?

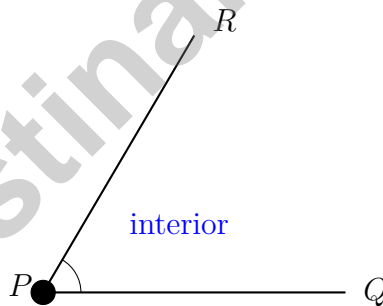
A. Square

B. Rectangle

C. Rhombus

D. Trapezoid

13)



Which part of the angle is labeled blue?

A. The vertex

B. The sides

C. The interior

D. The exterior



1) Three friends share a sub sandwich. Friend A eats $\frac{4}{10}$, Friend B eats $\frac{3}{10}$, and Friend C eats the rest. What fraction did Friend C eat?

A. $\frac{3}{10}$

B. $\frac{7}{10}$

C. $\frac{1}{10}$

D. $\frac{2}{10}$

2) Which pattern shows all multiples of 4?

A. 4, 8, 10, 16, 20

B. 2, 4, 6, 8, 10

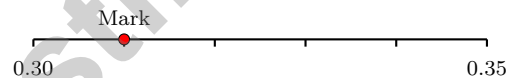
C. 4, 8, 12, 16, 20

D. 3, 6, 9, 12, 15

3) Which statement correctly describes how to classify a triangle?

 A. By looking only at the number of sides B. By looking at angle measures or side lengths C. By counting the number of vertices D. By measuring the perimeter

4) Number line with decimals between two tenths marked.



What decimal is marked?

A. 0.31

B. 0.13

C. 0.3

D. 0.41



- 5) How many tenths equal $\frac{20}{100}$?
- A. 2 tenths C. 200 tenths
 B. 20 tenths D. 0.2 tenths
- 6) A pie chart shows sections with angles of 90° , 80° , 60° , and 50° . What is the total angle measure of these four sections?
- A. 180° C. 280°
 B. 230° D. 360°
- 7) What is 3×807 ?
- A. 2321 C. 2521
 B. 2121 D. 2421
- 8) What is $\frac{1}{4} + \frac{3}{4}$?
- A. $\frac{4}{8}$ C. $\frac{3}{4}$
 B. $\frac{4}{4}$ or 1 D. $\frac{1}{8}$
- 9) In the number 4,726, what is the digit in the tens place and its value?
- A. Digit is 2; value is 2 C. Digit is 7; value is 700
 B. Digit is 6; value is 6 D. Digit is 2; value is 20
- 10) Grace drives 12 kilometers from home to school. Then she drives from school to the library, a distance that is 8 kilometers farther than the home-to-school trip. How many kilometers does she drive in total?
- A. 4 km C. 32 km
 B. 20 km D. 12 km



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1) Complete the factor pair table for 20:

| First Factor | Second Factor |
|--------------|---------------|
| 1 | 20 |
| 2 | ? |

What goes in the ?

- A. 8 C. 12
 B. 15 D. 10

2) Which statement about the diagram is correct?



- A. Point B is on segment AC C. Point C is on segment AB
 B. Point A is on segment BC D. All three points are endpoints

3) Which fraction bar shows $\frac{4}{6}$ as a sum of unit fractions?

Choice A

Choice B

Choice C

Choice D

- A. 4 parts shaded, 6 total C. 3 parts shaded, 4 total
 B. 3 parts shaded, 3 total D. 2 parts shaded, 3 total



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& answers

Practice Test Answer Keys

How to use this section with a Grade 4 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.** [4.NO.NF.1](#) Multiply both the numerator and denominator by 10: $\frac{5}{10} \times \frac{10}{10} = \frac{50}{100}$.
- 2) **Choice D is correct.** [4.NO.NBT.5](#) Picture D shows two fraction bars: the first has all 4 fourths shaded, the second has 2 fourths shaded. In total we have $4 + 2 = 6$ copies of $\frac{1}{4}$, which equals $\frac{6}{4}$.
- 3) **Choice A is correct.** [4.NO.NBT.4](#) Sam read pages on Monday and more on Tuesday, so we add. $234 + 189 = 423$ pages total.
- 4) **Choice A is correct.** [4.GM.M.7](#) The measure of an angle equals the number of one-degree angles it turns through, so 40 one-degree angles equal 40° .
- 5) **Choice A is correct.** [4.NO.NBT.5](#) With 4 bars, each showing $\frac{2}{4}$ shaded, we have $4 \times \frac{2}{4} = \frac{8}{4} = 2$ shaded in total.
- 6) **Choice B is correct.** [4.NO.NF.2](#) Check each: $\frac{4}{10} < \frac{1}{2}$ (4 tenths), $\frac{3}{8} < \frac{1}{2}$ (3 eighths), $\frac{5}{8} > \frac{1}{2}$ (5 eighths), $\frac{6}{10} > \frac{1}{2}$ (6 tenths). Both B choices are greater.
- 7) **Choice D is correct.** [4.NO.NBT.1](#) In any number, the thousands place is always 10 times the hundreds place. Example: in 2,222, thousands is 2,000 and hundreds is 200; $2,000 \div 200 = 10$ times. ✓
- 8) **Choice D is correct.** [4.NO.NBT.1](#) From the chart: ten-thousands: 4, thousands: 0 (omit), hundreds: 5, tens: 0 (omit), ones: 6 → “forty thousand, five hundred six” ✓
- 9) **Choice A is correct.** [4.NO.NBT.6](#) Long division: $2 \div 2 = 1$, bring down the 1 to get $1 \div 2 = 0$ r1, bring down the 5 to get $15 \div 2 = 7$ r1, bring down the 6 to get $16 \div 2 = 8$. The quotient is **1,078**.
- 10) **Choice C is correct.** [4.NO.NBT.1](#) Since $\frac{3}{10} < \frac{7}{10}$, regroup: $5 \frac{3}{10} = 4 \frac{13}{10}$. Subtract: $4 \frac{13}{10} - 2 \frac{7}{10} = 2 \frac{6}{10}$.
- 11) **Choice B is correct.** [4.NO.NBT.5](#) When adding fourths, the denominator stays the same! $\frac{1}{4} + \frac{1}{4} = \frac{2}{4}$, not $\frac{2}{8}$. The student mistakenly added the denominators.
- 12) **Choice B is correct.** [4.GM.G.2](#) A rectangle has two pairs of parallel sides and all four right angles. Although opposite sides are equal in length, not all four sides must be equal. The answer is **B**.
- 13) **Choice C is correct.** [4.GM.M.7](#) The blue-labeled region is the interior, the space between the two rays.
- 14) **Choice C is correct.** [4.GM.G.1](#) When Maria draws an angle just a bit wider than a right angle, she has created an obtuse angle. Any angle between 90° and 180° is obtuse.
- 15) **Choice D is correct.** [4.NO.NBT.1](#) Mia used 9 out of 12 pieces, so the fraction is $\frac{9}{12}$. This breaks into unit fractions: $\frac{9}{12} = \underbrace{\frac{1}{12} + \frac{1}{12} + \dots + \frac{1}{12}}_{9 \text{ copies}}$.
- 16) **The correct answer is B, C.** [4.AR.OA.4](#) Starting with a positive whole number: subtracting 5, subtracting 10, or dividing by 4 makes it smaller. Adding 3 or multiplying by 2 makes it larger. Increasing rules: B and C. ✓
- 17) **The correct answer is 8.** [4.AR.OA.4](#) Find all the factor pairs: 1×40 , 2×20 , 4×10 , 5×8 . Combine both sides: 1, 2, 4, 5, 8, 10, 20, 40—that’s 8 factors total.
- 18) **The correct answer is 12.** [4.GM.M.7](#) Divide the full circle by 30 degrees: $360^\circ \div 30^\circ = 12$ angles needed.
- 19) **Choice A is correct.** [4.GM.M.7](#) The diagram shows a ray dividing the angle. Add both parts: $44^\circ + 71^\circ = 115^\circ$.
- 20) **Choice D is correct.** [4.AR.OA.3](#) Two steps! Step 1: cupcakes from the trays: $6 \times 24 = 144$. Step 2: add the leftovers: $144 + 18 = 162$ cupcakes in total.
- 21) **Choice D is correct.** [4.AR.OA.5](#) “5 times as many” tells us to multiply. Priya’s brother has $3 \times 5 = 15$ coins.
- 22) **Choice C is correct.** [4.DPS.D.3](#) Step 1: Add the fruit: $2\frac{1}{2} + 1\frac{1}{2} = 4$ kg. Step 2: Add the container: $5 + 4 = 9$ kg. The total mass is 9 kilograms.
- 23) **Choice A is correct.** [4.GM.M.5](#) Area = $7 \times 5 = 35$ sq cm.
- 24) **Choice A is correct.** [4.NO.NBT.1](#) Option A shows two decompositions: $\frac{2}{10} + \frac{6}{10}$ and $\frac{4}{10} + \frac{4}{10}$. Check: $2 + 6 = 8$ and $4 + 4 = 8$. Both equal $\frac{8}{10}$. ✓
- 25) **Choice D is correct.** [4.NO.NBT.3](#) We’re rounding to the nearest thousand. Look at the hundreds digit: 5. Since $5 \geq 5$, we round UP! The thousands digit changes from 3 to 4, giving us **24,000**. ✓



A Quiet Word From Your Mentor

Hi, Thoughtful Student,

◇ I want to take a moment to tell you something true: you did excellent work. 9 practice tests is a real promise that you kept to yourself. That matters. ◇

★ **Mentors notice:** growth is quiet. It doesn't shout. But it shows up in how you handle a problem today vs how you did weeks ago. That growth is your real prize. ★

What I See in You

- **Hard Work:** You don't quit when problems are tough.
- **Curiosity:** You wonder why and how.
- **Kindness:** You are patient with yourself.
- **Brave Heart:** You try things that scare you.

Mentor's note: on test day, treat yourself like you would a friend. Be kind. Be patient. Be encouraging. The skills are inside you!

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

Jay Daie

Your Math Mentor

PRACTICE TODAY. ACHIEVE TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students strengthen essential math skills, build confidence, and develop the problem-solving abilities needed for classroom success and test readiness.

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- ✓ Fractions & Equivalent Fractions
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- ✓ Perimeter & Area
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