

4

North Dakota

NDSA

GRADE 4

MATH

PRACTICE TESTS



5 FULL-LENGTH
PRACTICE TESTS



STANDARDS-ALIGNED
REVIEW



MIXED PRACTICE
QUESTIONS



ANSWER KEY
INCLUDED



Standards-Aligned Review with
Mixed Practice and Answer Key



$$4 \times 7 = 28$$

$$36 \div 9 = 4$$

$$\begin{array}{r} 125 \\ + 87 \\ \hline 212 \end{array}$$



4 North Dakota NDSA Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Four focused 30-question missions for Grade 4 math: number facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

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Welcome, North Dakota Math Explorer!

Four steady rounds on the Peace Garden State math route

This book gives you four 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?

Four tests, 120 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 2–4	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 2–4	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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1) Two angles are adjacent and form a larger angle. One angle is 56° and the other is 34° . What is the sum?

A. 90°

C. 100°

B. 22°

D. 56°

2) What is $3 \times \frac{4}{6}$ in simplest form?

A. $\frac{7}{6}$

C. $1\frac{1}{6}$

B. $\frac{4}{18}$

D. $\frac{12}{6}$ or 2

3) Ava has 5 necklaces. Each necklace has $\frac{2}{3}$ meter of beads. How many meters of beads does Ava have in total?

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

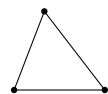
C. $3\frac{1}{3}$ meters

B. $\frac{5}{3}$ meters

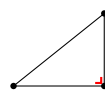
D. $\frac{2}{8}$ meter

4) How many $\frac{1}{6}$ s are in $\frac{4}{6}$? Write the number.

5) Look at the two triangles. Which one is a right triangle?



Triangle 1



Triangle 2

A. Triangle 1

C. Both triangles

B. Triangle 2

D. Neither triangle



6) Which fraction equals thirty-five hundredths?

A. $\frac{35}{10}$

B. $\frac{3}{5}$

C. $\frac{35}{100}$

D. $\frac{53}{100}$

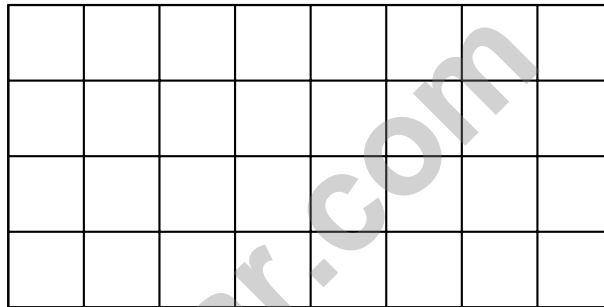
7) A fish tank requires 3 liters of water per day to stay clean. How many liters are needed for 5 days?

A. 8 L

B. 15 L

C. 2 L

D. 3 L



8)

Each grid square is 1 square unit. What is the perimeter of the rectangle?

A. 12 units

B. 24 units

C. 32 units

D. 48 units

9) Ava read 4,623 pages in a book series. Round to the nearest hundred to estimate pages read.

A. 4,600

B. 4,620

C. 4,700

D. 5,000



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10) Diego used $\frac{9}{10}$ of his water supply. He used $\frac{6}{10}$ on the hike and $\frac{3}{10}$ at camp. Which shows this decomposition?

A. $\frac{6}{10} + \frac{3}{10} = \frac{9}{10}$

B. $\frac{5}{10} + \frac{3}{10} = \frac{8}{10}$

C. $\frac{7}{10} + \frac{1}{10} = \frac{8}{10}$

D. $\frac{8}{10} + \frac{2}{10} = \frac{10}{10}$

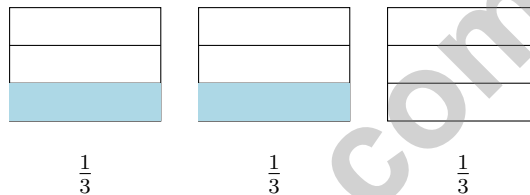
11) Sam ate $\frac{2}{6}$ of a pizza and Ming ate $\frac{3}{6}$ of the same pizza. How much of the pizza did they eat together?

A. $\frac{5}{6}$

B. $\frac{5}{12}$

C. $\frac{1}{6}$

D. $\frac{6}{6}$



12)

two cans have paint

Three paint cans are shown. Two are $\frac{1}{3}$ filled each (blue). One is empty. How much total paint is there?

A. $\frac{2}{3}$

B. $\frac{1}{3}$

C. $\frac{3}{3}$

D. $\frac{4}{3}$

13) Which number is divisible by 2?

A. 47

B. 71

C. 63

D. 52

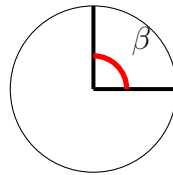


6) In the decimal 0.72, which digit is in the tenths place?

- A. 0 C. 2
 B. 7 D. 72

7) Diego reads 16 pages of a book each day. If he reads for 5 days, how many pages does he read?

- A. 21 C. 70
 B. 110 D. 80



8)

What is the measure of the angle shown?

- A. 45° C. 135°
 B. 90° D. 180°

9) When placing a protractor on an angle, the vertex should be at:

- A. The 0-degree mark D. Either the 0-mark or the center;
 B. The center point of the protractor they are the same
 C. The top of the protractor

10) A regular polygon has 6 lines of symmetry. How many sides does it have?



1) A music class has 156 minutes of rehearsal to divide evenly across 4 days. How many minutes are planned for each day?

- A. 39 minutes C. 156 minutes
 B. 52 minutes D. 160 minutes

2) On a line plot with fourths, the data are: $\frac{1}{4}$ in, $\frac{2}{4}$ in, $\frac{2}{4}$ in, $\frac{2}{4}$ in, $\frac{3}{4}$ in, $\frac{3}{4}$ in. What measurement has the most X marks?



3) What do you call two angles that share a vertex and their sides form two straight lines?

- A. Supplementary angles C. Adjacent angles
 B. Vertical angles D. Right angles



4) 5 bars, each $\frac{1}{3}$ yard

Each bar above is $\frac{1}{3}$ yard. What is the total length of all 5 bars?

- A. $\frac{5}{3}$ yards (or $1\frac{2}{3}$ yards) C. $\frac{1}{3}$ yard
 B. $\frac{5}{15}$ yard D. 5 yards



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5) What angle does the minute hand sweep in 30 minutes?

A. 90°

C. 180°

B. 120°

D. 270°

6) Round 3,264 to the nearest hundred.

A. 3,200

C. 3,260

B. 3,000

D. 3,300

7) The trail to the tallest building in the city is 4 kilometers long. How many meters is this?

A. 400

C. 40,000

B. 4,000

D. 400,000

8) How many copies of $\frac{1}{3}$ are in $\frac{3}{3}$?

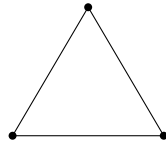
A. 1

C. 3

B. 2

D. 6

9) Look at the triangle. Which type is it?



A. Right triangle

C. Acute triangle

B. Obtuse triangle

D. Right obtuse triangle



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

- Choice A is correct.** (4.GM.M.7) These adjacent angles sit together. Add them: $56^\circ + 34^\circ = 90^\circ$.
- Choice D is correct.** (4.NO.NBT.5) We take 3 copies of $\frac{4}{6}$. Multiply: $3 \times \frac{4}{6} = \frac{3 \times 4}{6} = \frac{12}{6} = 2$. The answer is **2**.
- Choice C is correct.** (4.NO.NBT.5) We multiply the whole number by the fraction. Ava has 5 necklaces, each with $\frac{2}{3}$ meter of beads: $5 \times \frac{2}{3} = \frac{10}{3}$ meters, which is $3\frac{1}{3}$ meters.
- The correct answer is 4.** (4.NO.NBT.5) Count the unit fractions: $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6} = 4 \times \frac{1}{6} = \frac{4}{6}$. There are **4** unit fractions.
- Choice B is correct.** (4.GM.G.2) Triangle 2 shows a right angle marker in the form of a small square at one corner, which indicates a right triangle. Triangle 1 has no right angle marker. The answer is **B**.
- Choice C is correct.** (4.NO.NF.1) The phrase “thirty-five hundredths” means $\frac{35}{100}$, which you write as a decimal: 0.35.
- Choice B is correct.** (4.DPS.D.3) The tank needs 3 liters per day for 5 days. Multiply: $3 \times 5 = 15$ liters. He needs **15** liters of water.
- Choice B is correct.** (4.GM.M.5) From the grid: 8 units long and 4 units wide. Perimeter = $2(8) + 2(4) = 16 + 8 = 24$ units.
- Choice A is correct.** (4.NO.NBT.3) We’re rounding to the nearest hundred. Look at the tens digit: 2. Since $2 < 5$, we round DOWN. The hundreds digit stays at 6, so Ava read about **4,600** pages. ✓
- Choice A is correct.** (4.NO.NBT.1) Diego used $\frac{6}{10}$ on the hike and $\frac{3}{10}$ at camp. Total water used: $6 + 3 = 9$, so $\frac{6}{10} + \frac{3}{10} = \frac{9}{10}$. ✓
- Choice A is correct.** (4.NO.NBT.1) Sam and Ming both ate pieces with the same-sized slices. Together: $2 + 3 = 5$ slices, so $\frac{5}{6}$ of the pizza.
- Choice A is correct.** (4.NO.NBT.1) The picture shows three paint cans. Two cans are filled (blue sections), one is empty. Add the two filled cans: $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$ total paint.
- Choice D is correct.** (4.AR.OA.4) Divisibility rule for 2: the last digit must be even (0, 2, 4, 6, 8). 52 ends in 2—even! So $52 \div 2 = 26$. The others (47, 63, 71) end in odd digits, so they don’t divide evenly by 2.
- Choice A is correct.** (4.NO.NF.2) Bag 1 has $\frac{4}{8}$ stickers. Simplify: $\frac{4}{8} = \frac{4 \div 4}{8 \div 4} = \frac{1}{2}$. Bag 2 has $\frac{2}{4} = \frac{1}{2}$ also. Same amount!
- Choice B is correct.** (4.GM.G.3) The letter Y has two equal arms at the top that open symmetrically. A vertical line down the middle divides it into matching left and right halves. The answer is **1** line of symmetry.
- The correct answer is 42.** (4.GM.M.7) Noah’s angle measures 42° , meaning it contains **42** one-degree angles.
- Choice D is correct.** (4.AR.OA.4) Apply “multiply by 3 then subtract 2” to input 5: Step 1: $5 \times 3 = 15$. Step 2: $15 - 2 = 13$.
- The correct answer is B, D.** (4.AR.OA.3) Divide: $125 \div 30 = 4$ remainder 5. Four buses fit only 120 students, so we round *up* to 5 buses (choice B is correct). The fifth bus carries the remainder—5 students (choice D is correct). Choice A undercounts; choice C is wrong because $115 \div 30$ still needs 4 buses; choice E is wrong because $3 \times 30 = 90$, far fewer than 125.
- Choice C is correct.** (4.GM.G.1) A ray is like a beam of light from a flashlight — it starts at one point and shines forever in one direction only. A line keeps going both ways, a segment stops at both ends, and a point is just one spot with no size at all.
- Choice C is correct.** (4.NO.NBT.6) Divide: $14 \div 8 = 1$ r6, bring down the 5 to get $65 \div 8 = 8$ r1, bring down the 6 to get $16 \div 8 = 2$. Each animal receives **182** pounds of feed.
- Choice C is correct.** (4.AR.OA.3) The bar model shows the park’s bar is 3 equal pieces, each the size of the garden’s 10 rose bushes. Multiply: $3 \times 10 = 30$ rose bushes.
- Choice D is correct.** (4.AR.OA.5) This is a two-step problem. Step 1: find Chen’s cars: $4 \times 6 = 24$. Step 2: “how many *more*” is a subtraction question, so $24 - 6 = 18$. Chen has **18** more cars than Diego.
- Choice C is correct.** (4.GM.M.7) The unshaded sector is 60° , so the shaded region is the rest: $360^\circ - 60^\circ = 300^\circ$.
- The correct answer is 5.** (4.NO.NBT.1) The fraction $\frac{5}{9}$ means 5 pieces, each $\frac{1}{9}$. So the answer is **5** unit fractions.
- Choice D is correct.** (4.NO.NBT.1) Step 1: $30,000 + 6,000 = 36,000$. Step 2: $36,000 + 500 + 20 + 8 = 36,528$ ✓



Hi, Math Pilot!

◇ 4 flights done in your math airplane. You have flown through smooth skies and bumpy clouds. You are a real pilot now. ◇

★ **Pilots know:** a good check before takeoff makes a smooth flight. Before each problem, do your check: read, plan, solve, verify. ★

Pilot Skills

- **Pre-Flight:** You read the question carefully.
- **Steering:** You pick the right strategy.
- **Smooth Flight:** You stay calm in long tests.
- **Landing:** You always check your final answer.

Pilot tip: on test day, take off one problem at a time. Trust your training. You earned your wings!

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

Jay Daie

Your Math Pilot

PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students build strong math skills, master key concepts, and gain the confidence they need to excel.

With 4 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to strengthen problem-solving skills and achieve their best.

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- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Confidence Building

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Develop logical thinking and effective solution strategies.



Test Confidence

Become familiar with test-style questions and formats.



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Measure growth across multiple practice tests.



Prepare for Success

Build the confidence needed to do your best on test day.

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- ✓ Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Decimals
- ✓ Geometry & Measurement
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- ✓ Perimeter & Area
- ✓ Patterns & Algebraic Thinking
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