

# 3

# North Dakota

# NDSA

## GRADE 4

# MATH

## PRACTICE TESTS

Standards-Aligned Review with  
Mixed Practice and Answer Key



**5 FULL-LENGTH**  
PRACTICE TESTS



**STANDARDS-ALIGNED**  
REVIEW



**MIXED PRACTICE**  
QUESTIONS



**ANSWER KEY**  
INCLUDED

$$a^2 + b^2 = c^2$$

$$\frac{3}{4}$$



# 3 North Dakota NDSA Grade 4 Math Practice Tests

*Standards-Aligned Practice for Stronger Math Skills and Test Readiness*



Three 30-question trail tests packed with Grade 4 review, North Dakota NDSA 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, North Dakota Math Explorer!

Three steady rounds on the Peace Garden State math route

This book gives you three full Grade 3 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?

Three tests, 90 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 1–3	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 1–3	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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For more practice  
& answers

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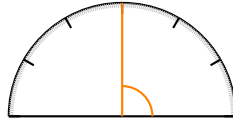
1) Which number completes the equation?  $\_\_\_ \times \frac{1}{5} = \frac{3}{5}$

A. 1

C. 3

B. 2

D. 5



2)

Sam uses a protractor to measure an angle. The angle lines up exactly with the 90-degree mark. What type of angle is this?

A. Right angle

C. Obtuse angle

B. Straight angle

D. Acute angle

3) A candy weighs  $\frac{1}{8}$  pound. If Diego has 6 pieces of this candy, what is the total weight?

A.  $\frac{3}{4}$  pound

C.  $\frac{1}{48}$  pound

B.  $\frac{5}{8}$  pounds

D.  $\frac{6}{1}$  pounds

4) A baker uses  $\frac{3}{4}$  cup of flour, then adds  $\frac{2}{4}$  cup more. How much flour total?

A.  $\frac{5}{8}$  cup

C.  $\frac{1}{4}$  cup

B.  $\frac{5}{4}$  or  $1\frac{1}{4}$  cups

D.  $\frac{6}{4}$  cups

5) In the number 6,217, which digit is in the tens place?

A. 6

C. 1

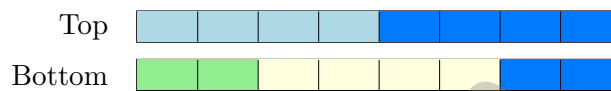
B. 2

D. 7



- 6) A farmer has two fields. Field A is 0.83 km wide and Field B is 0.38 km wide. Which field is wider?

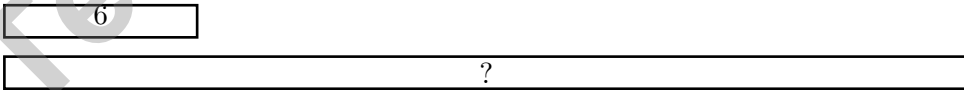
- 7) A student draws two bars showing  $\frac{8}{8}$ :



Which decomposition does the top bar show?

- A.  $\frac{4}{8} + \frac{4}{8}$ 
 C.  $\frac{1}{8} + \frac{7}{8}$   
 B.  $\frac{2}{8} + \frac{2}{8} + \frac{2}{8} + \frac{2}{8}$ 
 D.  $\frac{3}{8} + \frac{5}{8}$
- 8) Ming has 936 marbles. She wants to pack them into bags with 9 marbles each. How many full bags can she make?

- A. 104
  C. 108  
 B. 99
  D. 114

- 9) 

A baker made 6 chocolate cookies. She made 5 times as many vanilla cookies. How many vanilla cookies did she make?

- A. 11
  C. 30  
 B. 25
  D. 36



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10) What is  $9,000 - 4,256$ ?

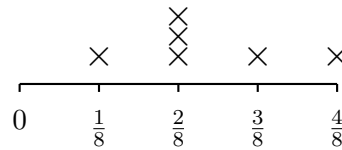
A. 4,744

C. 4,244

B. 5,244

D. 5,744

11) Look at the line plot of plant growth measurements (in inches). How many X marks are above  $\frac{2}{8}$  inch?



A. 1

C. 3

B. 2

D. 4

12) During lunch, the cafeteria used 6 gallons of milk on Monday and 8 gallons on Tuesday. How many gallons did they use in total?

A. 2 gallons

C. 14 gallons

B. 8 gallons

D. 48 gallons

13) How many factor pairs does 20 have?

A. 2

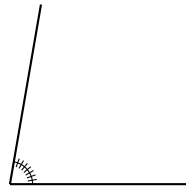
C. 4

B. 5

D. 3

14) Write 0.56 as a fraction.



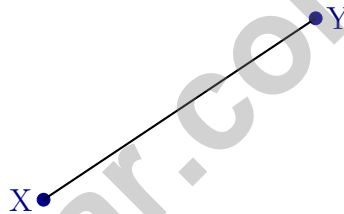


1)

Count the intervals from 0 to 80 in this angle. What is the measure?

- A.  $10^\circ$                        C.  $80^\circ$   
 B.  $40^\circ$                        D.  $81^\circ$

2) What are the endpoints of this line segment?



- A.  $X$  and  $Y$                        C. Only  $Y$   
 B. Only  $X$                        D. The midpoint
- 3) A pattern starts at 3 and follows the rule “add 4.” What is the 5th term in the pattern?
- A. 15                       C. 19  
 B. 16                       D. 23



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4) How many degrees are in  $\frac{3}{4}$  of a turn?

- A.  $180^\circ$                        C.  $270^\circ$   
 B.  $225^\circ$                        D.  $300^\circ$

5) Which description names a figure that would be symmetric about the described line?

- A. A right triangle with the line parallel to the hypotenuse       C. A scalene triangle with the line through the center  
 B. An isosceles triangle with the line through the vertex angle       D. A right triangle with legs of different lengths

6) A rope is 9 yards long. How many feet does the rope measure?

7) A digit 2 in the thousands place has how many times the value of a digit 2 in the tens place?

- A. 10                                   C. 100  
 B. 50                                   D. 1,000

8) Which number line shows  $\frac{2}{5} + \frac{3}{5} = 1$ ?



- A. Starts at  $\frac{2}{5}$ , hops to  $\frac{3}{5}$                        C. Starts at 1, hops backward to  $\frac{3}{5}$   
 B. Starts at 0, hops to  $\frac{2}{5}$ , then to 1                       D. Starts at 0, hops to  $\frac{5}{5}$

1) Which fraction is in simplest form?

A.  $\frac{2}{6}$   
 B.  $\frac{6}{12}$

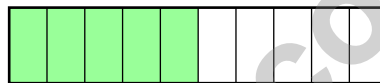
C.  $\frac{4}{10}$   
 D.  $\frac{3}{8}$

2) Noah wants to carpet his bedroom floor. The room is a rectangle that is 14 feet long and 10 feet wide. How many square feet of carpet does he need?

A. 24 sq ft  
 B. 48 sq ft

C. 140 sq ft  
 D. 280 sq ft

3) Look at the model.



Which answer uses tenths to match this model?

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

C.  $\frac{4}{5}$   
 D.  $\frac{6}{10}$

4) Which shows six tenths as both a decimal and a fraction?

A. 0.6 and  $\frac{6}{10}$   
 B. 0.06 and  $\frac{6}{100}$

C. 0.6 and  $\frac{6}{100}$   
 D. 6.0 and  $\frac{6}{10}$

5) A puppy weighs 3 kilograms. How many grams is this?

A. 300  
 B. 3,000

C. 30,000  
 D. 300,000





## 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 C is correct.** (4.NO.NBT.5) To find the missing number, think: How many copies of  $\frac{1}{5}$  do we need to make  $\frac{3}{5}$ ? We need 3 copies. So the equation is  $3 \times \frac{1}{5} = \frac{3}{5}$ .
- Choice A is correct.** (4.GM.M.6) Whenever an angle measures exactly  $90^\circ$ , we call it a right angle. It's one of the most important angles we measure because it appears everywhere—in book corners, window frames, and the letter L. This angle aligns perfectly with  $90^\circ$ , so the answer is right angle.
- Choice A is correct.** (4.NO.NBT.5) We multiply the number of candies by the weight of each:  $6 \times \frac{1}{8} = \frac{6}{8}$  pound. Simplify  $\frac{6}{8}$  to get  $\frac{3}{4}$  pound.
- Choice B is correct.** (4.NO.NBT.1) The baker adds fourths:  $3 + 2 = 5$  fourths, giving  $\frac{5}{4}$ . Since that's more than a whole cup, it's  $1\frac{1}{4}$  cups.
- Choice C is correct.** (4.NO.NBT.1) In 6,217, counting from the right: ones is 7, tens is 1, hundreds is 2, thousands is 6. The tens place contains 1. ✓
- The correct answer is Field A.** (4.NO.NF.1) Compare tenths first (they outweigh hundredths). Field A has 8 tenths; Field B has 3 tenths. Since  $8 > 3$ ,  $0.83 > 0.38$ , so Field A is wider. ✓
- Choice A is correct.** (4.NO.NBT.1) The top bar has two equal colors: light is  $\frac{4}{8}$  and dark is  $\frac{4}{8}$ . Together:  $4 + 4 = 8$ , giving  $\frac{8}{8}$ . ✓
- Choice A is correct.** (4.NO.NBT.6) Divide:  $9 \div 9 = 1$ , bring down the 3 to get  $3 \div 9 = 0$  r3, bring down the 6 to get  $36 \div 9 = 4$ . Ming makes 104 full bags.
- Choice C is correct.** (4.AR.OA.3) The bar model shows the vanilla bar is 5 equal pieces, each the size of the 6 chocolate cookies. Multiply:  $5 \times 6 = 30$  vanilla cookies.
- Choice A is correct.** (4.NO.NBT.4) Since we're subtracting from 9,000, we must regroup across the zeros to subtract in each place. The answer is 4,744.
- Choice C is correct.** (4.DPS.D.2) On the line plot, count the X marks stacked above  $\frac{2}{8}$  inch. There are 3 X marks.
- Choice C is correct.** (4.DPS.D.3) The cafeteria used 6 gallons on Monday and 8 gallons on Tuesday. Add them:  $6 + 8 = 14$  gallons. They used 14 gallons in total.
- Choice D is correct.** (4.AR.OA.4) Find every pair that multiplies to 20:  $1 \times 20$ ,  $2 \times 10$ ,  $4 \times 5$ . That's 3 factor pairs. *Tip:* go in order (1, 2, 3, ...) and stop when the pair starts to repeat.
- The correct answer is  $\frac{56}{100}$ .** (4.NO.NF.1) 0.56 is fifty-six hundredths:  $0.56 = \frac{56}{100}$ .
- Choice D is correct.** (4.NO.NF.2) To get a denominator of 12 from 3, multiply by 4. Multiply both top and bottom by 4:  $\frac{2}{3} = \frac{2 \times 4}{3 \times 4} = \frac{8}{12}$ .
- The correct answer is A, C.** (4.GM.M.5) Check A: Area =  $10 \times 6 = 60$  sq ft ✓ Check C: Perimeter =  $2(10) + 2(6) = 32$  ft ✓ The other options are incorrect.
- Choice D is correct.** (4.AR.OA.4) First find the rule by looking at the gaps:  $6 - 2 = 4$ ,  $10 - 6 = 4$ ,  $14 - 10 = 4$ ,  $18 - 14 = 4$ . So the rule is "add 4." Apply it once more:  $18 + 4 = 22$ .
- Choice B is correct.** (4.GM.G.2) A trapezoid is defined by having exactly one pair of parallel sides. Since parallelograms, rectangles, and rhombuses each have two pairs of parallel sides, they cannot be trapezoids. The answer is B.
- Choice D is correct.** (4.AR.OA.5) Step 1: find Owen's soldiers:  $5 \times 7 = 35$ . Step 2: "how many more" is a subtraction:  $35 - 5 = 30$ . Owen has 30 more soldiers than Ethan.
- Choice A is correct.** (4.NO.NBT.1) We have three copies of  $\frac{1}{2}$ . When we add unit fractions with the same denominator, we keep the denominator and count the numerators:  $1 + 1 + 1 = 3$ , so  $\frac{1}{2} + \frac{1}{2} + \frac{1}{2} = \frac{3}{2}$ .
- Choice D is correct.** (4.NO.NBT.1) From the chart: thousands:  $9 \rightarrow 9,000$ , hundreds: 0 (omit), tens:  $4 \rightarrow 40$ , ones:  $2 \rightarrow 2$  ✓
- Choice B is correct.** (4.GM.M.7) If an angle turns through  $n$  one-degree angles, it measures  $n$  degrees, so 45 one-degree angles equal  $45^\circ$ .
- Choice B is correct.** (4.NO.NBT.1) Subtract the wholes:  $2 - 1 = 1$ . Subtract the fractions:  $\frac{3}{4} - \frac{1}{4} = \frac{2}{4}$ . The difference is  $1\frac{2}{4}$ .



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Trail Guide's Final Note

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## Hi, Brave Trail-Walker!

◇ You walked all 3 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. SUCCEED TOMORROW!

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

With 3 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.

Perfect for classroom use, homework, test preparation, and extra practice at home.

## PERFECT FOR:

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

★ CONFIDENCE TODAY.  
SUCCESS TOMORROW!

## WHAT STUDENTS WILL GAIN



### Stronger Math Skills

Build a solid foundation through targeted practice and review.



### Better Problem Solving

Develop logical thinking and effective solution strategies.



### Test Confidence

Become familiar with test-style questions and formats.



### Prepare for Success

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

## TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Decimals
- ✓ Measurement & Data
- ✓ Geometry & Shapes
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ And More!



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for additional Grade 4 math resources and practice materials.

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