

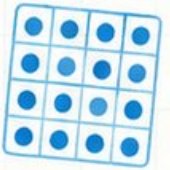
# 10

$$7 \times 8 = 56$$

$$\begin{array}{r} 32 \\ \times 6 \\ \hline 192 \end{array}$$



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



## North Dakota



## NDSA



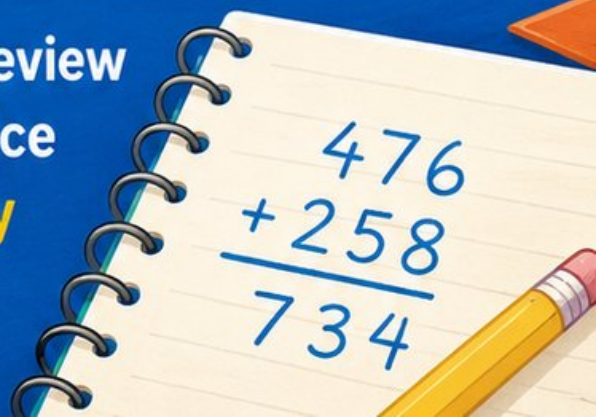
## GRADE 4



## MATH

### PRACTICE TESTS

Standards-Aligned Review  
with Mixed Practice  
and **Answer Key**



# 10 North Dakota NDSA Grade 4 Math Practice Tests

*Standards-Aligned Review with Mixed Practice and Answer Key*



Ten 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!

Ten steady rounds on the Peace Garden State math route

This book gives you ten 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?

Ten tests, 300 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.
Test 10	Final round to show growth across the whole North Dakota book.
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.

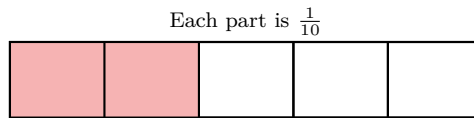


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For more practice  
& answers

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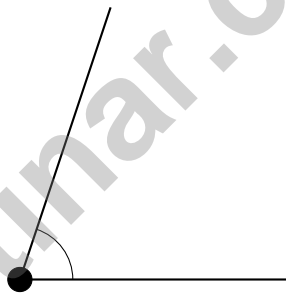
- 1) A fraction bar is divided into 5 equal parts. If 2 parts are shaded and each part is  $\frac{1}{10}$ , what fraction is shaded?



- A.  $\frac{2}{10}$                        C.  $\frac{1}{10}$   
 B.  $\frac{2}{5}$                          D.  $\frac{5}{2}$
- 2) What is  $\frac{4}{10} + \frac{5}{10}$ ?

- A.  $\frac{9}{20}$                        C.  $\frac{1}{10}$   
 B.  $\frac{9}{10}$                        D.  $1\frac{0}{10}$

3)



A straight angle measures 180 degrees. Is this angle more or less than 180 degrees?

- A. More than 180 degrees                       C. Less than 180 degrees  
 B. Exactly 180 degrees                         D. Cannot tell from the picture



4) Round 9,987 to the nearest thousand. (This is a rollover case.)

A. 9,000

C. 9,900

B. 9,987

D. 10,000

5) Noah had  $3\frac{2}{6}$  meters of string. He added  $1\frac{4}{6}$  meters more. How long is the string now?

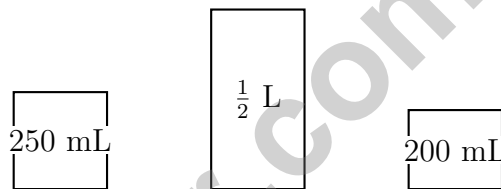
A.  $4\frac{1}{6}$  meters

C. 5 meters

B.  $4\frac{5}{6}$  meters

D.  $5\frac{1}{6}$  meters

### Liquid Containers



6) Container A    Container B    Container C

If you pour all three containers together, how many milliliters of liquid do you have in total?

A. 450 mL

C. 750 mL

B. 650 mL

D. 950 mL

7) Mia buys 4 ribbons, each one-sixth of a yard long. How long are all the ribbons together?

A.  $\frac{4}{6}$  yard

C.  $\frac{1}{24}$  yard

B. 4 yards

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



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& answers

8) Add:  $6,234 + 3,456 = ?$

9) Is  $\frac{3}{5}$  greater than or less than  $\frac{1}{2}$ ?

- A. Greater than  $\frac{1}{2}$   
 B. Less than  $\frac{1}{2}$

- C. Equal to  $\frac{1}{2}$   
 D. Cannot determine

10) What is  $4 \times \frac{2}{5}$ ?

- A.  $\frac{4}{5}$   
 B.  $\frac{6}{5}$

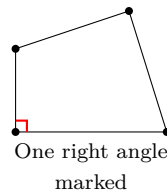
- C.  $\frac{8}{20}$   
 D.  $\frac{8}{5}$

11) A rectangle has a length of 8 ft and a width of 5 ft. What is its area?

- A. 13 sq ft  
 B. 26 sq ft

- C. 40 sq ft  
 D. 45 sq ft

12) A quadrilateral has one right angle marked. How many pairs of parallel sides does it have?



- A. Zero pairs  
 B. One pair

- C. Two pairs  
 D. Cannot tell from the image





7)  $\frac{5}{6} = \frac{2}{6} + \underline{\hspace{1cm}}$ . The missing fraction is:

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

B.  $\frac{3}{6}$

C.  $\frac{4}{6}$

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

8) In the number 7,846, what digit is in the tens place?

A. 7

B. 8

C. 4

D. 6

9) A line plot with eighths shows data at:  $\frac{2}{8}$  (2 X marks),  $\frac{4}{8}$  (3 X marks),  $\frac{6}{8}$  (1 X mark).  
What is the range of this data?

A.  $\frac{2}{8}$

B.  $\frac{3}{8}$

C.  $\frac{4}{8}$

D.  $\frac{5}{8}$

10) What is  $4 \times \frac{3}{8}$  as a mixed number?

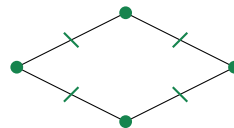
A.  $\frac{3}{32}$

B.  $\frac{4}{8}$

C.  $\frac{12}{8}$  or  $1\frac{1}{2}$

D.  $\frac{12}{32}$

11) Look at the shape shown. It is a quadrilateral with four equal sides but no right angles. What is it?



All sides equal

A. Rectangle

B. Square

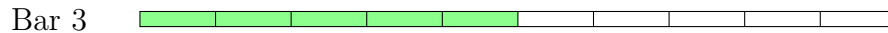
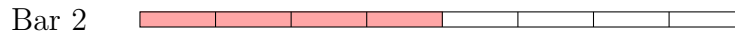
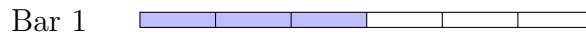
C. Rhombus

D. Trapezoid



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1) Look at the three fraction bars. Which shows the greatest fraction?



- A. Bar 1:  $\frac{3}{6}$                        C. Bar 3:  $\frac{5}{10}$   
 B. Bar 2:  $\frac{4}{8}$                        D. All are equal
- 2) At the farmers market, Noah's apple weighs 0.22 kg and Lin's apple weighs 0.27 kg. Whose apple is heavier?
- A. Noah's apple (0.22 kg)                       D. Cannot tell without more information  
 B. Lin's apple (0.27 kg)  
 C. Both apples weigh the same
- 3) A library has 8 shelves. Each shelf holds 45 books. The librarian removes 72 books to repair them. How many books are left on the shelves?
- A. 360     C. 217  
 B. 432     D. 288
- 4) What is the value of the digit 8 in the number 1,289?
- A. 8     C. 800  
 B. 8,000     D. 80



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5) Which decimal represents  $\frac{60}{100}$ ?

A. 0.06

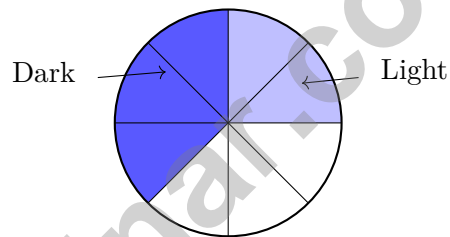
C. 6.0

B. 0.6

D. 0.66

6) An angle of  $156^\circ$  is split into two smaller angles. If one angle is  $89^\circ$ , what is the measure of the other angle?

7) This pie model shows  $\frac{5}{8}$  decomposed into two shaded regions:



Which equation shows this decomposition?

A.  $\frac{2}{8} + \frac{3}{8}$

C.  $\frac{4}{8} + \frac{1}{8}$

B.  $\frac{3}{8} + \frac{3}{8}$

D.  $\frac{1}{8} + \frac{4}{8}$

8) A bookcase shelf is  $\frac{3}{10}$  meter wide. What is the width of 4 shelves placed side by side?

A.  $\frac{3}{40}$  meter

C.  $\frac{4}{10}$  meter

B.  $\frac{12}{10}$  meters (or  $1\frac{1}{5}$  meters)

D.  $\frac{12}{40}$  meter



## 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.**

Testinar.com



## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** **(4.NO.NBT.5)** When 2 parts are shaded and each part is  $\frac{1}{10}$ , we get  $2 \times \frac{1}{10} = \frac{2}{10}$ .
- 2) **Choice B is correct.** **(4.NO.NBT.1)** Same denominator, same rule: add the numerators ( $4 + 5 = 9$ ), keep the denominator. Answer:  $\frac{9}{10}$ .
- 3) **Choice C is correct.** **(4.GM.M.7)** This angle is not a straight line, so it measures less than 180 degrees. It is much smaller than a straight angle.
- 4) **Choice D is correct.** **(4.NO.NBT.3)** We're rounding to the nearest thousand. Look at the hundreds digit:  $9 \geq 5$ , so round UP! But 9 becomes 10—a rollover! So  $9,987 \rightarrow 10,000$ . ✓
- 5) **Choice C is correct.** **(4.NO.NBT.1)** Add the wholes:  $3 + 1 = 4$ . Add the fractions:  $\frac{2}{6} + \frac{4}{6} = \frac{6}{6} = 1$ . Combine:  $4 + 1 = 5$  meters.
- 6) **Choice D is correct.** **(4.GM.M.1)** Convert  $\frac{1}{2}$  L to mL:  $\frac{1}{2} \times 1,000 = 500$  mL. Add all:  $250 + 500 + 200 = 950$  mL. The answer is **950** mL.
- 7) **Choice A is correct.** **(4.NO.NBT.5)** Each ribbon is  $\frac{1}{6}$  yard. With 4 ribbons, the total length is  $4 \times \frac{1}{6} = \frac{4}{6}$  yard.
- 8) **The correct answer is 9,690.** **(4.NO.NBT.4)** Add from right to left: ones  $4 + 6 = 10$  (write 0, carry 1), tens  $3 + 5 + 1 = 9$ , hundreds  $2 + 4 = 6$ , thousands  $6 + 3 = 9$ . The sum is **9,690**.
- 9) **Choice A is correct.** **(4.NO.NF.2)** Compare to  $\frac{1}{2}$ : Convert to tenths:  $\frac{3}{5} = \frac{6}{10}$  and  $\frac{1}{2} = \frac{5}{10}$ . Since  $6 > 5$ ,  $\frac{3}{5} > \frac{1}{2}$ .
- 10) **Choice D is correct.** **(4.NO.NBT.5)** We have 4 copies of  $\frac{2}{5}$ . Multiply the whole number by the numerator:  $4 \times \frac{2}{5} = \frac{4 \times 2}{5} = \frac{8}{5}$ . The answer is  $\frac{8}{5}$ .
- 11) **Choice C is correct.** **(4.GM.M.5)** To find area, we multiply length times width:  $8 \times 5 = 40$  sq ft.
- 12) **Choice A is correct.** **(4.GM.G.2)** Examining the figure, no opposite sides appear to be parallel to each other. The single right angle marked at one corner does not indicate that opposite sides are parallel. The answer is **A**.
- 13) **Choice A is correct.** **(4.NO.NBT.1)** One whole ( $\frac{4}{4}$ ) as unit fractions means four pieces of  $\frac{1}{4}$ :  $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{4}{4}$ . ✓
- 14) **Choice D is correct.** **(4.AR.OA.3)** The bar model shows the friend's bar split into 3 equal pieces, each the size of Elena's 2 books. So we multiply:  $3 \times 2 = 6$  books.
- 15) **Choice C is correct.** **(4.AR.OA.4)** Count stars: Figure 1 has 1, Figure 2 has 3, Figure 3 has 6. The increases are +2, then +3. Following the pattern, the next increase is +4:  $6 + 4 = 10$  stars.
- 16) **Choice B is correct.** **(4.NO.NF.1)** All three have tenths = 7, so compare hundredths:  $0 < 5 < 8$ . Thus  $0.70 < 0.75 < 0.80$ .
- 17) **The correct answer is A, D.** **(4.GM.M.7)** B is wrong ( $125^\circ - 50^\circ = 75^\circ$ ). C is wrong ( $360^\circ \div 4 = 90^\circ$ ). E is wrong ( $90^\circ - 30^\circ = 60^\circ$ ).
- 18) **The correct answer is 1,000.** **(4.NO.NBT.1)** Step 1: name the place values. The thousands 8 is worth  $8 \times 1,000 = 8,000$ ; the ones 8 is worth  $8 \times 1 = 8$ . Step 2: divide to compare:  $8,000 \div 8 = 1,000$ . So the thousands 8 is 1,000 times the ones 8. ✓
- 19) **Choice C is correct.** **(4.NO.NBT.6)** Divide:  $18 \div 9 = 2$  and  $0 \div 9 = 0$ . The bakery made **200** full boxes of cookies.
- 20) **Choice D is correct.** **(4.AR.OA.3)** Divide to share equally:  $350 \div 27 = 12$  remainder 26. So 12 complete bracelets are made, with 26 beads left over (not enough for one more bracelet, since one more needs 27).
- 21) **Choice A is correct.** **(4.NO.NBT.5)** Use the distributive property:  $6 \times (30 + 5) = 180 + 30 = 210$  students.
- 22) **Choice B is correct.** **(4.NO.NF.1)** Four tenths equals:  $\frac{4}{10} = \frac{40}{100} = 0.40 = 0.4$ .
- 23) **Choice D is correct.** **(4.NO.NF.2)** The denominator changes from 5 to 20. Divide:  $20 \div 5 = 4$ . So multiply the numerator by 4:  $4 \times 4 = 16$ .
- 24) **Choice C is correct.** **(4.GM.M.7)** One-eighth of the circle is  $\frac{1}{8} \times 360^\circ = 45^\circ$ .
- 25) **Choice C is correct.** **(4.DPS.D.3)** Step 1: Sugar weight:  $5 \times 3 = 15$  kg. Step 2: Salt weight:  $3 \times 2 = 6$  kg. Step 3: Total:  $15 + 6 = 21$  kg. The total weight is **21** kg.
- 26) **Choice B is correct.** **(4.GM.M.7)** The angle shown measures  $70^\circ$ , made from **70** one-degree angles.
- 27) **The correct answer is 2.** **(4.NO.NBT.5)** All 4 pieces, each weighing  $\frac{1}{2}$  pound, weigh  $4 \times \frac{1}{2} = \frac{4}{2} = 2$  pounds total.



---

Lab Notes for a Young Scientist

## Hi, Curious Scientist!

◇ 10 tests. So many experiments! You tested ideas. You watched what worked. You learned a lot. That's how scientists work—and how you work! ◇

★ **Scientists know:** mistakes are facts, not failures. Every problem you missed taught you something. You used those facts to do better next time. ★

### Lab Results

- **Hypothesis:** CONFIRMED! Practice makes you better.
- **Method:** STRONG! You try, watch, and adjust.
- **Data:** CAREFUL! You read and copy numbers right.
- **Conclusion:** READY! You can do this test.

**Scientist tip:** on test day, stay curious. Ask, "What is this asking?" Then experiment with your math tools. You will find the answer!

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 Scientist

# PRACTICE TODAY. ACHIEVE TOMORROW!

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