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# 10 North Dakota NDSA




## GRADE 3

# MATH



## PRACTICE TESTS



- ✓ Complete Standards Review
  - ✓ Skill Practice
  - ✓ Word Problems and Answer Key
- 

$$2 \times 7 + 4$$



★ ★ ★  
**PREPARE  
PRACTICE  
SUCCEED!**  
★ ★ ★



Aligned to  
Grade 3 Math  
Standards



Build Confidence  
and Master  
Math Skills



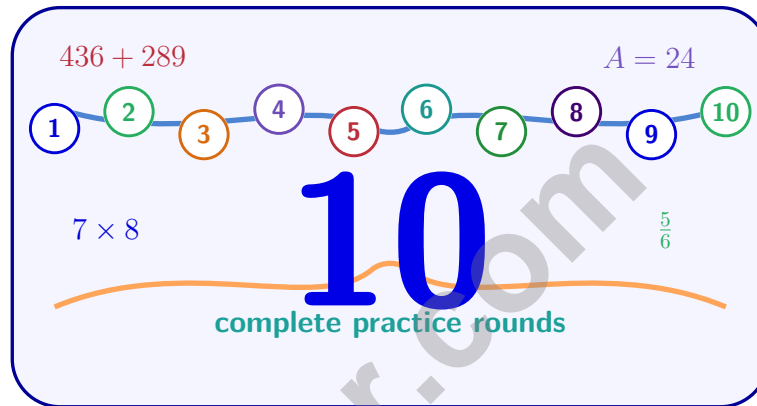
Test-Taking  
Practice for  
Success



Answer Key  
for Easy  
Review

# 10 North Dakota NDSA Grade 3 Math Practice Tests

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



Ten complete 30-question Grade 3 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 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?

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.



Scan me!  
For more practice  
& answers

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- 7) A rectangular kitchen table is 8 feet long and 6 feet wide. What is the area that the table covers?

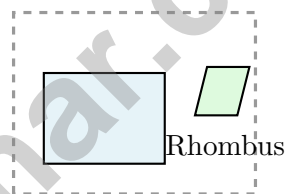


8)

Number	Round to 10	Round to 100
156	160	?

Fill in the blank: 156 rounded to the nearest 100 is \_\_\_\_\_.

- A. 150                       C. 200  
 B. 160                       D. 156



- 9)                      Rectangle

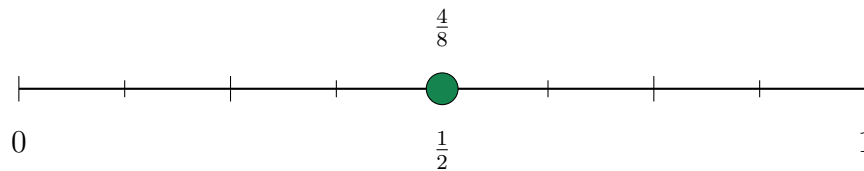
Two shapes are shown. Which property do they share?

- A. Both have right angles                       C. Both have equal sides  
 B. Both have 4 sides                               D. Both are squares



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& answers

10) Look at the number line. Where does  $\frac{4}{8}$  land?



A. At  $\frac{1}{4}$

C. At  $\frac{3}{4}$

B. At  $\frac{1}{2}$

D. At  $\frac{1}{8}$

11) A unit square in centimeters has side length 1 cm. What is the area of the unit square in square centimeters?



12) This shape is made of unit squares on a grid.



How many unit squares cover this rectangle?

A. 6 sq units

C. 8 sq units

B. 5 sq units

D. 10 sq units

13) A picture graph shows ribbons. Each star represents 2 ribbons. Blue ribbons: 5 stars. Red ribbons: 3 stars. How many more blue ribbons than red?

A. 2

C. 6

B. 4

D. 10



1)  $567 + 216 = ?$

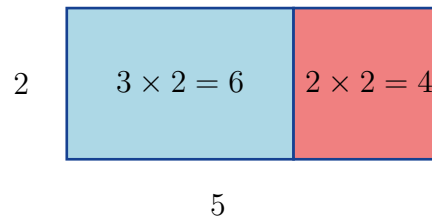
A. 783

B. 792

C. 873

D. 793

2) Look at this area model. Which equation does it show?



A.  $2 \times 3 = 6$

B.  $5 + 2 = 7$

C.  $3 \times (2 + 2) = 12$

D.  $2 \times (3 + 2) = 10$

3) Two cakes are the same size. Cake A is cut into 2 slices with 1 eaten. Cake B is cut into 6 slices with 3 eaten. How much cake is left?

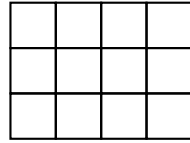
 A. The same amount is left. B. Cake A has more left. C. Cake B has more left. D. Cannot compare.

4) How many sides does a rhombus have, and are they all equal?

 A. 3 sides, all equal B. 4 sides, some equal C. 5 sides, all equal D. 4 sides, all equal

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5) Look at this rectangle covered exactly by unit squares:

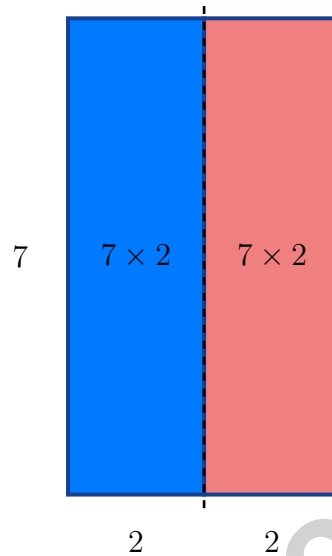


Count the unit squares. What is the area?

- A. 7 sq units                       C. 14 sq units  
 B. 12 sq units                     D. 24 sq units
- 6) What is  $72 \div 8$ ?
- A. 8                                       C. 10  
 B. 9                                       D. 64
- 7) Ben saves \$7 each week. After a certain number of weeks, he has saved \$63. How many weeks did he save?
- $\times 7 = 63$
- A. 10                                       C. 7  
 B. 8                                       D. 9
- 8) A sheet of paper is 8 centimeters long and 4 centimeters wide. What is its area?
- A. 32 sq cm                               C. 12 sq cm  
 B. 24 sq cm                               D. 36 sq cm



1) Lily splits  $7 \times 4$  as  $7 \times (2 + 2)$ . Which statement describes the area model?



- A. Two parts labeled  $7 \times 2$  and  $7 \times 2$      C. Two parts labeled  $7 \times 3$  and  $7 \times 1$   
 B. One part labeled  $7 + 4$      D. Four parts labeled  $2 + 2 + 2 + 2$
- 2) Which number sentence matches “How many 5-packs of pencils are in 25 pencils?”
- A.  $25 + 5$      C.  $5 \times 25$   
 B.  $5 - 25$      D.  $25 \div 5$
- 3) A toy costs \$5. Two toys cost \$10. Three toys cost \$15. Four toys cost \$20. How much do 5 toys cost?
- A. \$24     C. \$26  
 B. \$30     D. \$25



4) Which statement is true?

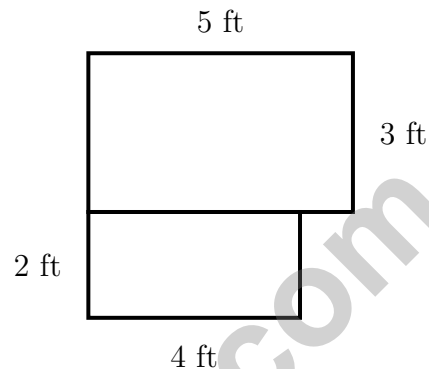
A.  $\frac{5}{1} = 1$

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

C.  $\frac{6}{3} = 2$

D.  $\frac{3}{1} = \frac{1}{3}$

5) An L-shaped room plan shows two rectangles. Top: 5 ft by 3 ft. Bottom: 4 ft by 2 ft. What is the total floor area?



A. 15 sq ft

B. 8 sq ft

C. 120 sq ft

D. 23 sq ft

6) Jacob makes 7 groups of 10 beads. Fill in the place-value chart.

Tens	Ones
—	—

What is the total number of beads?

A. 17

B. 70

C. 7

D. 107



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& answers

## 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 D is correct.** **(3.AR.OA.5)** Multiply:  $3 \text{ bags} \times 7 \text{ marbles per bag} = 21 \text{ marbles}$ .
- 2) **Choice A is correct.** **(3.GM.M.8)** Both rectangles have width 3. Total length is  $10 + 6 = 16$ . Combined area is  $(3 \times 10) + (3 \times 6) = 30 + 18 = 48$ .
- 3) **Choice A is correct.** **(3.GM.M.7)**  $10 \times 2 = 20$  square units.
- 4) **Choice D is correct.** **(3.NO.NF.1)** Sharing equally among people is division. Each person gets  $30 \div 5 = 6$  items.
- 5) **Choice B is correct.** **(3.NO.NF.1)** Sam eats  $\frac{1}{4}$  and Mia eats  $\frac{1}{4}$ . Together:  $\frac{1}{4} + \frac{1}{4} = \frac{2}{4}$  is eaten, so  $\frac{2}{4}$  remains.
- 6) **Choice D is correct.** **(3.AR.OA.1)**  $8 \times 6$  means 8 groups of 6. Skip-counting: 6, 12, 18, 24, 30, 36, 42, 48. The product is 48.
- 7) **The correct answer is 48 square feet.** **(3.GM.M.8)** Area = length  $\times$  width, so  $8 \times 6 = 48$  square feet.
- 8) **Choice C is correct.** **(3.NO.NBT.2)** The tens digit is 5. Since  $5 \geq 5$ , round up: 156 rounds to 200.
- 9) **Choice B is correct.** **(3.GM.G.2)** A rectangle and a rhombus are both quadrilaterals with 4 sides. They differ in their angles and side lengths.
- 10) **Choice B is correct.** **(3.NO.NF.5)**  $\frac{4}{8}$  and  $\frac{1}{2}$  mark the same point on the line.
- 11) **The correct answer is 1 cm<sup>2</sup>.** **(3.GM.M.8)** Area = side length  $\times$  side length =  $1 \text{ cm} \times 1 \text{ cm} = 1$  square centimeter.
- 12) **Choice A is correct.** **(3.GM.M.8)** The grid shows 3 columns and 2 rows.  $3 \times 2 = 6$  unit squares.
- 13) **Choice B is correct.** **(3.DPS.D.3)** Blue:  $5 \times 2 = 10$  ribbons. Red:  $3 \times 2 = 6$  ribbons. More:  $10 - 6 = 4$ .
- 14) **Choice C is correct.** **(3.GM.M.2)** Add:  $750 + 250 = 1000$  mL.
- 15) **Choice B is correct.** **(3.NO.NF.4)** 10 halves  $\div$  2 halves per whole =  $10 \div 2 = 5$  wholes.
- 16) **Choices A, C, and D are correct.** **(3.GM.M.8)**  $4 \times 7 = 28$ . Diego's  $7 + 7 + 7 + 7$  equals 28, Sam's  $4 + 4 + 4 + 4 + 4 + 4 + 4$  equals 28, and Pia's four rows of seven dots equals 28.
- 17) **Choice B is correct.** **(3.AR.OA.2)** The grid has 3 columns and 6 rows. Area =  $3 \times 6 = 18$  square units. You can also add:  $3 + 3 + 3 + 3 + 3 + 3 = 18$  (six rows of three).
- 18) **Choice D is correct.** **(3.GM.M.8)**  $3 \times 7 = 21$  square units. C is sum error.
- 19) **Choice B is correct.** **(3.NO.NF.1)** The unit fraction is  $\frac{1}{3}$ . The second tick is at two unit fractions:  $2 \times \frac{1}{3} = \frac{2}{3}$ .
- 20) **Choice A is correct.** **(3.NO.NF.4)** Divide the numerator and denominator of  $\frac{2}{4}$  by 2:  $\frac{2 \div 2}{4 \div 2} = \frac{1}{2}$ .
- 21) **Choice A is correct.** **(3.NO.NF.5)** Three thirds is one whole. Three eighths is less than one whole. So  $\frac{3}{3} > \frac{3}{8}$ .
- 22) **Choice C is correct.** **(3.NO.NF.3)**  $\frac{2}{3} = \frac{4}{6}$  because both represent two-thirds of the board.
- 23) **Choice D is correct.** **(3.NO.NBT.3)** Add:  $127 + 234 = 361$ . Ones:  $7 + 4 = 11$  (write 1, carry 1). Tens:  $2 + 3 + 1 = 6$ . Hundreds:  $1 + 2 = 3$ .
- 24) **Choice D is correct.** **(3.GM.M.3)** Both the hour and minute hands point straight up (at 12) only at 12 : 00.
- 25) **Choice B is correct.** **(3.DPS.D.2)** Subtract:  $5 - 3 = 2$  more twigs are 4 inches long.
- 26) **Choice C is correct.** **(3.GM.M.7)** Multiply length by width:  $10 \times 8 = 80$  square feet.
- 27) **Choice A is correct.** **(3.AR.OA.2)**  $3 \times 7 = 3 \times (6 + 1) = 3 \times 6 + 3 \times 1 = 18 + 3 = 21$ . Using the distributive property, she can add one more group of 3.
- 28) **Choice D is correct.** **(3.NO.NF.2)** Point D is at 2.5. Count from 0: the 10th fourth-mark is at  $\frac{10}{4} = 2\frac{2}{4} = 2\frac{1}{2}$ .
- 29) **Choice D is correct.** **(3.GM.M.7)** Rectangle 1:  $8 \times 3 = 24$  sq ft. Rectangle 2:  $4 \times 2 = 8$  sq ft. Total:  $24 + 8 = 32$  sq ft.
- 30) **The correct answer is 12.** **(3.AR.OA.6)** The difference between consecutive numbers is always 2:  $2 + 2 = 4$ ,  $4 + 2 = 6$ , and so on. So  $10 + 2 = 12$ .

### Practice Test 2 Answers and Explanations



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A Note From Your Math Friend

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## Hi, Math Star!

◇ Wow! You finished 10 full practice tests. That is a LOT of math problems. You worked hard, and your brain got stronger every time. ◇

★ **Here is a big idea:** mistakes are okay! Every time you got something wrong, you got smarter. Through 10 tests, you learned that trying is the most important thing. ★

### Look What You Did!

- **Hard Worker:** You did not give up!
- **Smart Thinker:** You used your math tools.
- **Brave Learner:** You tried hard problems.
- **Test Ready:** You feel proud and prepared.

**Big tip for test day:** take your time. Read each problem twice. Show your work. Check your answer. You can do this!

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 Friend

Testinar.com

# PRACTICE TODAY. SUCCEED TOMORROW!

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Realistic tests that simulate the look and feel of actual Grade 3 math assessments.



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