

6

North Dakota NDSA

GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Practice with
Review, Answer Keys, and Explanations



6 Full-Length
Practice Tests



Detailed Answer Keys
and Explanations



Master Skills.
Boost Scores.
Succeed!

6 North Dakota NDSA Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Six complete 30-question practice labs for Grade 3 math: operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome to the Six Skill Labs

Six full tests, six focused resets, and a stronger Grade 3 problem solver



Notice the pattern. Choose a tool. Explain the answer.

To the Grade 3 Math Builder

This book gives you six practice labs for the North Dakota NDSA. Each lab is a complete 30-question test, so students can practice accuracy, stamina, and clear mathematical thinking.

North Dakota brings prairie roads, badland layers, farm fields, and big open skies. Strong math uses that same care: read the task, select a strategy, build the solution, and keep steady work across the whole test.

Decode

Find the question, the units, and the useful numbers.

Design

Use an equation, array, number line, graph, or sketch.

Confirm

Make sure the answer matches the question.

Six-lab promise: I will work with patience, show useful thinking, and treat corrections as part of learning.

How to Use This Book

A six-lab routine for steady Grade 3 growth

Use one practice lab at a time. The goal is not only to finish more pages. The goal is to finish, review, repair, and bring a smarter habit to the next test. For North Dakota students, each lab is a short route through prairie roads, badland layers, farm fields, and big open skies: steady, alert, and ready for the next clue.

1. **Warm up.** Skim the reference materials and remind yourself of common tools.
2. **Take one test.** Work steadily and mark problems that need a second look.
3. **Check answers.** Use the compact answer keys first.
4. **Read explanations.** Study missed items and any lucky guesses.
5. **Redo two problems.** Rewrite the work cleanly without peeking.
6. **Set the next lab goal.** Choose one skill or habit to improve.

Best review habit: A mistake is most useful when you can say why it happened and what you will do differently next time.



What Is Inside?

Six complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–6	Solve six different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read why each answer works.	Turn missed items into a clear next step.
Standards Reference	See how North Dakota Grade 3 standards connect to practice.	Understand the skills behind the questions.

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. This gives students practice with quick decisions, careful reading, and short written math answers for the North Dakota NDSA path.

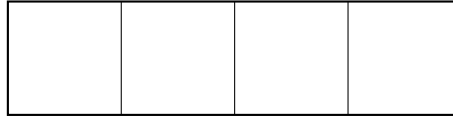


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Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	26
★ Practice Test 3	_____	38
★ Practice Test 4	_____	50
★ Practice Test 5	_____	62
★ Practice Test 6	_____	74
Practice Test Answer Keys	_____	85
Practice Test Answers and Explanations	_____	89

- 4) Lily has a sandwich shaped like a rectangle. She cuts it into 4 equal pieces to share with friends. What fraction is each piece?



- A. $\frac{1}{3}$ C. $\frac{2}{4}$
 B. $\frac{1}{4}$ D. $\frac{4}{4}$
- 5) Eli has 35 apples. He uses 5 apples to make a pie. He divides the remaining apples equally among 6 friends. How many apples does each friend get?
- A. 5 C. 7
 B. 6 D. 30
- 6) A sheet of paper is folded to make 2 equal halves. What unit fraction is one half?
- A. $\frac{1}{3}$ C. $\frac{1}{2}$
 B. $\frac{2}{1}$ D. $\frac{1}{1}$
- 7) Two identical ribbons. Ribbon A shows $\frac{1}{2}$ colored red. Ribbon B shows $\frac{3}{6}$ colored red. Which statement is true?
- A. Ribbon A has more red. C. Both have the same amount of red.
 B. Ribbon B has more red. D. Cannot tell.
- 8) A rectangle on a grid has 8 columns and 5 rows of unit squares. Explain one way you could count all the unit squares.

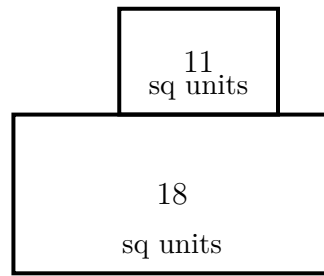


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9) What is $45 \div 5$?

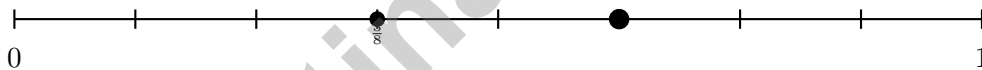
- A. 8 C. 10
 B. 11 D. 9

10) A composite shape has areas of 18 sq units and 11 sq units. Find the total area.



- A. 29 sq units C. 7 sq units
 B. 18 sq units D. 198 sq units

11) A number line from 0 to 1 has 8 equal parts. If you start at $\frac{3}{8}$ and move 2 parts to the right, where do you land?



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

12) Which number rounds to 500 when rounded to the nearest 100?

- A. 449 C. 550
 B. 560 D. 460



1) Noah wants to use the associative property to solve $(3 \times 4) \times 2$. Which equation correctly uses the associative property?

A. $(3 + 4) \times 2 = 14$

C. $(3 \times 4) \times 2 = 3 \times 4 \times 2 = 9$

B. $(3 \times 4) \times 2 = 3 \times (4 + 2) = 18$

D. $(3 \times 4) \times 2 = 3 \times (4 \times 2) = 3 \times 8 = 24$

2) Write one multiplication equation for an array with 3 rows and 6 columns.

3) A garden is arranged in an array with 7 rows and 3 plants in each row. How many plants are in the garden?

A. 21

C. 10

B. 19

D. 24

4) Two students each divided a number line from 0 to 1 into equal parts. Maya used 4 parts; Jacob used 6 parts. Which unit fraction is bigger?

A. $\frac{1}{4}$ (Maya's)

C. They are the same size

B. $\frac{1}{6}$ (Jacob's)

D. Cannot compare without a picture

5) Which time is closest to 2 : 45 PM?

A. 2 : 30 PM

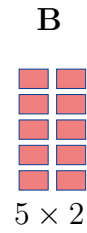
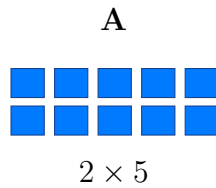
C. 3 : 30 PM

B. 3 : 15 PM

D. 2 : 45 PM

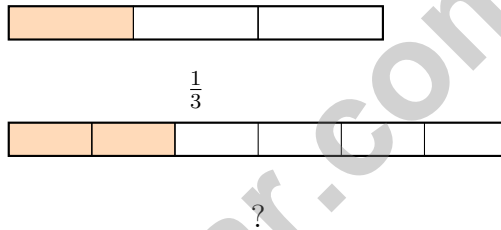


1) What do arrays A and B show?



- A. Both arrays have 10 squares. C. Array B has 12 squares.
 B. Array A has 7 squares. D. The arrays show different products.

2) Sam eats 1 slice from a 3-slice pizza. Which fraction is equivalent to what he ate?



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

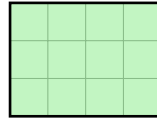
3) Ava's piano lesson is at 3 : 52 PM. She needs to arrive 8 minutes early. What time should Ava arrive?

- A. 3 : 44 PM C. 4 : 00 PM
 B. 3 : 45 PM D. 3 : 40 PM

4) Mia colors part of a circle. She colors $\frac{3}{6}$ red and $\frac{1}{2}$ blue on two identical circles. Which statement is true?

- A. She colored more blue. C. She colored the same amount.
 B. Blue and red use different shapes. D. She colored more red.

5) This grid shows a shape made of unit squares.



What is the area?

- A. 12 sq units C. 14 sq units
 B. 10 sq units D. 7 sq units
- 6) What fraction is the third tick on a number line split into 6 equal parts?



7) A square has a perimeter of 20 feet. What is the length of one side?

- A. 5 ft C. 10 ft
 B. 4 ft D. 20 ft

8) Otto divides 72 items into 8 equal groups. To find how many items in each group, which multiplication helps him?

- A. $8 \times 8 = 64$ C. $9 \times 7 = 63$
 B. $10 \times 8 = 80$ D. $8 \times 9 = 72$



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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 B is correct.** **(3.NO.NF.4)** 6 halves divided by 2 halves per whole = $6 \div 2 = 3$ wholes.
- 2) **Choice C is correct.** **(3.GM.M.2)** Read directly from the measuring cup: 500 mL.
- 3) **Choice A is correct.** **(3.NO.NBT.3)** Reading the chart: 3 hundreds is 300, 5 tens is 50, 4 ones is 4. Total: $300 + 50 + 4 = 354$.
- 4) **Choice B is correct.** **(3.NO.NF.1)** Four equal pieces means each piece is $\frac{1}{4}$ of the sandwich.
- 5) **Choice A is correct.** **(3.AR.OA.3)** Step 1: Subtract: $35 - 5 = 30$ apples. Step 2: Divide: $30 \div 6 = 5$ apples per friend. (Choice D is step 1 only.)
- 6) **Choice C is correct.** **(3.NO.NF.1)** Folding a sheet into 2 equal parts creates two halves, each one is $\frac{1}{2}$.
- 7) **Choice C is correct.** **(3.NO.NF.3)** $\frac{1}{2} = \frac{3}{6}$ because both represent one-half of the ribbon.
- 8) **The correct answer is 40 sq units.** **(3.GM.M.8)** Students should show understanding of skip-counting or repeated addition. Both row-counting and column-counting are valid strategies.
- 9) **Choice D is correct.** **(3.AR.OA.1)** $45 \div 5 = 9$ because $9 \times 5 = 45$. Count by fives: 5, 10, 15, 20, 25, 30, 35, 40, 45.
- 10) **Choice A is correct.** **(3.GM.M.7)** Add the areas: $18 + 11 = 29$ square units. Choice B (only one part) and C (subtraction) are common errors.
- 11) **Choice C is correct.** **(3.NO.NF.2)** Starting at $\frac{3}{8}$ and moving 2 parts right means $3 + 2 = 5$, so you are at $\frac{5}{8}$.
- 12) **Choice D is correct.** **(3.NO.NBT.2)** Numbers from 450 to 549 round to 500. The number 460 has tens digit $6 \geq 5$, so it rounds up to 500.
- 13) **Choice A is correct.** **(3.GM.M.3)** 4 : 00 to 4 : 40 is 40 minutes.
- 14) **Choice A is correct.** **(3.GM.M.7)** Rectangle 1: 3 columns and 4 rows = $3 + 3 + 3 + 3 = 12$ unit squares. Rectangle 2: 6 columns and 2 rows = $6 + 6 = 12$ unit squares. Rectangle 3: 5 columns and 3 rows = $5 + 5 + 5 = 15$ unit squares. Rectangles 1 and 2 both have an area of 12 square units.
- 15) **Choices A and B are correct.** **(3.NO.NF.1)** $20 \div 5$ has two equivalent meanings: “20 items shared among 5 groups” (partitive, answer is 4 per group) and “How many groups of 5 fit in 20” (quotitive, answer is 4 groups). Choice E describes the same idea as A. Choices C and D are incorrect operations.
- 16) **Choice B is correct.** **(3.AR.OA.2)** Area = $10 \times 2 = 20$ square meters.
- 17) **Choice A is correct.** **(3.NO.NF.2)** The distance from $\frac{5}{8}$ to $\frac{8}{8}$ is $\frac{8}{8} - \frac{5}{8} = \frac{3}{8}$, or 3 eighths.
- 18) **Choice D is correct.** **(3.AR.OA.5)** Area = $7 \times 5 = 35$ ft².
- 19) **The correct answer is 4 sides.** **(3.GM.G.2)** A square has 4 sides.
- 20) **Choice B is correct.** **(3.NO.NF.5)** On the number line, $\frac{2}{6}$ and $\frac{1}{3}$ mark the same point.
- 21) **Choice B is correct.** **(3.NO.NF.1)** More parts means smaller pieces. When the same line is split into more parts, each part is smaller. $\frac{1}{4} < \frac{1}{3}$.
- 22) **The correct answer is 63.** **(3.AR.OA.2)** The commutative property gives $9 \times 7 = 63$.
- 23) **Choice D is correct.** **(3.NO.NBT.4)** The array shows 4 rows with 10 apples each: $4 \times 10 = 40$ apples.
- 24) **Choice D is correct.** **(3.AR.OA.5)** The bar is divided into 6 equal parts with a total of 48. Each part is $48 \div 6 = 8$. You can check: $8 \times 6 = 48$.
- 25) **Choice D is correct.** **(3.AR.OA.2)** Divide: $21 \div 3 = 7$ columns. Check: $3 \times 7 = 21$.
- 26) **Choice D is correct.** **(3.GM.M.8)** Three bags with 6 marbles each means 3 groups of 6. So $3 \times 6 = 6 + 6 + 6 = 18$.
- 27) **Choice A is correct.** **(3.NO.NF.4)** Multiply numerator and denominator by 2: $\frac{1 \times 2}{3 \times 2} = \frac{2}{6}$. Both bars show the same shaded length.
- 28) **Choice A is correct.** **(3.NO.NF.5)** Same numerator (5): sixths are bigger pieces than eighths. So $\frac{5}{6} > \frac{5}{8}$. Ben ran farther.
- 29) **Choice D is correct.** **(3.AR.OA.6)** Each number increases by 6. These are multiples of 6: $36 \div 6 = 42$.
- 30) **Choice B is correct.** **(3.GM.M.8)** Area = length \times width = $5 \times 3 = 15$ square inches. Choice A (8) is the sum; C (10) is 5×2 ; D (12) is 4×3 .



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Trail Guide's Final Note

Hi, Brave Trail-Walker!

◇ You walked all 6 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.

Jay Daie

Your Math Trail Guide

BUILD CONFIDENCE. MASTER MATH. ACHIEVE SUCCESS!



This **Grade 3 Math Practice Tests** book is the perfect companion for students who want to strengthen their math skills and excel in school. With **6** full-length practice tests designed to reflect real test formats, students get the practice they need to understand key concepts, build problem-solving skills, and tackle any challenge with confidence.

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