

5

North Dakota

NDSA

GRADE 3

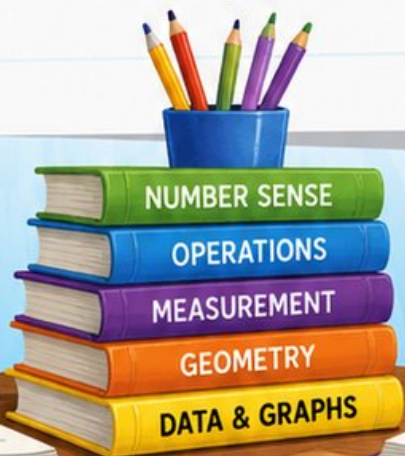
MATH

PRACTICE TESTS

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

$24 \div 3 = 8$

$125 + 37$



5 FULL-LENGTH
PRACTICE TESTS



STANDARDS-
ALIGNED
PRACTICE



DETAILED
ANSWER KEYS



CLEAR
EXPLANATIONS
TO HELP YOU SUCCEED

5 North Dakota NDSA Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Five focused 30-question checkpoints for Grade 3 math: facts, 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 Five Checkpoint Quest

Five tests, five fresh starts, and one stronger Grade 3 thinker



Read. Model. Solve. Check. Grow.

To the Grade 3 Math Explorer

This book gives you five practice checkpoints for the North Dakota NDSA. Each checkpoint is a full 30-question test, so you can practice stamina, accuracy, and the habit of showing what you know.

North Dakota has prairie winds, river valleys, wide fields, and open views where steady work stands out. Strong math uses the same kind of careful planning: look at the path, choose a tool, and check your work before moving ahead.

Notice

Circle key words, units, and numbers before you start.

Build

Use arrays, number lines, equations, tables, or sketches.

Verify

Ask, "Does this answer fit the question?"

Five-checkpoint promise: I will try each test with patience, mark my mistakes honestly, and use every correction to make the next checkpoint stronger.

How to Use This Book

A five-step routine for steady Grade 3 growth

Use one checkpoint at a time. A good pace is one test, one careful review, and one short skill tune-up before the next test.

1. **Preview the tools.** Skim the reference page and remember where multiplication, fractions, measurement, and shapes appear.
2. **Take one full test.** Work neatly. If a problem feels stuck, mark it and keep moving.
3. **Check the answer key.** Notice the question type: multiple choice, select all, or open-ended.
4. **Study explanations.** Pick two missed questions and redo them without looking.
5. **Choose the next focus.** Write one habit to carry into the next checkpoint.

Best review habit: Do not just ask, “What was the answer?” Ask, “What clue did I miss, and what tool should I try next time?”



What Is Inside?

Five complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–5	Solve five different 30-question tests.	Build stamina and see many Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read the reason behind each answer.	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. That mix gives students practice with quick choices, careful reasoning, and short written answers.

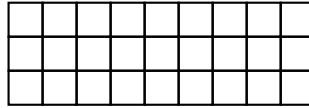


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& answers

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5) Eli’s rectangular carpet is 9 units long and 3 units wide. Here is the grid:



Count all the unit squares. What is the area?

- A. 12 sq units (just the edge)
- B. 18 sq units
- C. 27 sq units
- D. 36 sq units

6) Look at the rows in a multiplication table:

×	1	2	3	4
3	3	6	9	12
4	4	8	12	16

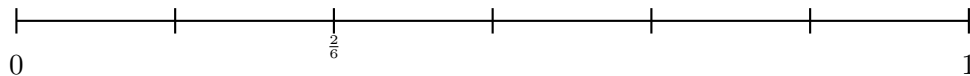
What increases by 3 in the row for 3?

- A. The multiplier on the top
- B. The table title
- C. The column number
- D. The product each time

7) Mia spent \$176 on books and \$245 on pencils. How much did Mia spend in total?

- A. \$411
- B. \$431
- C. \$420
- D. \$421

8) On a number line from 0 to 1 split into 6 equal parts, does the line show $\frac{1}{3}$?



- A. Yes, it shows $\frac{1}{3}$ at the first tick
- B. Yes, it shows $\frac{1}{3}$ at the second tick
- C. No, because sixths and thirds are different
- D. No, because $\frac{1}{3}$ is always between 0 and 1



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9) Lily has 20 stickers. She puts them in 4 equal groups. How many stickers are in each group?

A. 5

C. 6

B. 4

D. 24

10) Which number does NOT round to 60 when rounded to the nearest 10?

A. 58

C. 64

B. 61

D. 65

11) Which comparison is true?

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

C. $\frac{2}{3} > \frac{2}{2}$ ($3 > 2$)

B. $\frac{2}{2} > \frac{2}{3}$ ($2/2 = \text{whole}, 2/3 < \text{whole}$)

D. $\frac{2}{3} = \frac{2}{2}$

12) A picture graph shows stickers collected. Each star represents 2 stickers. If Sam has 3 stars, how many stickers does Sam have?



A. 2

C. 6

B. 5

D. 8



1) Which picture shows 3 groups of 4?

A. ★★ ★★ ★★ ★★

B. ★★ ★★ ★★ ★★

C. ★★ ★★ ★★

D. ★★ ★★ ★★ ★★

2) If a number line from 0 to 1 has 8 equal parts, how far is the fifth tick from 0?

A. $\frac{1}{8}$

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

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

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

3) Which number sentence represents “How many groups of 3 are in 24?”

A. $24 \div 3$

B. $3 \div 24$

C. $3 + 24$

D. 3×24

4) Sam starts his homework at 3 : 20 PM. He finishes at 3 : 55 PM. How many minutes did Sam spend on homework?

A. 30 minutes

B. 35 minutes

C. 40 minutes

D. 20 minutes

5) What is 9×4 ?

A. 32

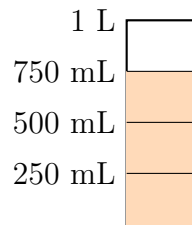
B. 35

C. 36

D. 40



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6)

A pitcher is filled to the 750 mL line with orange juice. How many more mL are needed to fill it to 1000 mL?

- A. 100 mL
- B. 200 mL
- C. 250 mL
- D. 500 mL

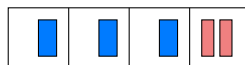
7) The bar shows $\frac{8}{4}$. How many whole units?



- A. 1 whole
- B. 2 wholes
- C. 4 wholes
- D. 8 wholes

8) A store has 3 shelves with 12 books on each shelf. Plus 9 more books on a table. What is the total number of books?

- A. 24
- B. 36
- C. 45
- D. 63



9)

The bar model shows part of a subtraction problem. If the total is 523 and one part is 245, what is the other part?

- A. 278
- B. 288
- C. 378
- D. 268

1) Ben has 4 boxes with 5 markers in each. Which number sentence shows how many markers he has?

A. $4 + 5 = 9$

C. $4 \times 4 = 16$

B. $5 + 5 + 5 = 15$

D. $4 \times 5 = 20$

2) A square frame is made of wood. Each side is 5 inches. If you wanted to cover the area inside the frame with paper, how much paper would you need?

 A. 10 square inches C. 25 square inches B. 20 square inches D. 5 square inches

3)

2	4	6	8	10	?
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Which number comes next?

 A. 11 C. 14 B. 16 D. 12

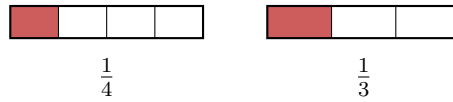
4) Round 682 to the nearest 100.

 A. 600 C. 682 B. 680 D. 700

5) Three identical pizzas are divided. Pizza 1 has 2 parts shaded out of 3. Pizza 2 has 4 parts shaded out of 6. Pizza 3 has 3 parts shaded out of 4. Which two are equivalent?

 A. None are equivalent C. Pizza 1 and Pizza 3 B. Pizza 2 and Pizza 3 D. Pizza 1 and Pizza 2

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6)

Which fraction is smaller?

- A. $\frac{1}{4}$ is smaller C. They are equal
 B. $\frac{1}{3}$ is smaller D. Cannot tell

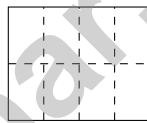
7) How many stars are there? Skip count by 10s to find the total.

3 groups of 10 = $3 \times 10 = ?$



- A. 13 C. 31
 B. 103 D. 30

8)



This rectangle is divided into equal parts. What multiplication sentence shows this?

- A. $2 \times 2 = 4$ C. $5 \times 2 = 10$
 B. $3 \times 2 = 6$ D. $4 \times 2 = 8$

9) A rectangle has length 4 units and width 3 units. There are 4 rows with 3 unit squares in each row. Find the area by adding: $3 + 3 + 3 + 3 = ?$

- A. 7 sq units C. 12 sq units
 B. 9 sq units D. 10 sq units

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.MD.B.4)** Shorter than $3\frac{3}{4}$ feet means values less than $3\frac{3}{4}$. Count the X's at 3, $3\frac{1}{4}$, and $3\frac{1}{2}$: $1 + 1 + 2 = 4$.
- 2) **Choice B is correct.** **(3.MD.A.1)** $1 : 16 + 29 \text{ min} = 1 : 45 \text{ PM}$.
- 3) **The correct answer is 8.** **(3.OA.A.3)** $48 \div 6 = 8$.
- 4) **Choice B is correct.** **(3.NF.A.3)** $\frac{4}{6}$ and $\frac{2}{3}$ both equal two-thirds of a whole.
- 5) **Choice C is correct.** **(3.MD.C.5b)** Count the rows: 3 rows. Count across: 9 unit squares per row. Total: $9 + 9 + 9 = 27$ square units cover the carpet.
- 6) **Choice D is correct.** **(3.OA.D.9)** In the row for 3, the products are 3, 6, 9, 12, going up by 3 each time.
- 7) **Choice D is correct.** **(3.NBT.A.2)** Add: $176 + 245 = 421$. Ones: $6 + 5 = 11$ (write 1, carry 1). Tens: $7 + 4 + 1 = 12$ (write 2, carry 1). Hundreds: $1 + 2 + 1 = 4$.
- 8) **Choice B is correct.** **(3.NF.A.2)** $\frac{2}{6}$ equals $\frac{1}{3}$ because both represent the same point on the line. You can simplify $\frac{2}{6}$ to $\frac{1}{3}$.
- 9) **Choice A is correct.** **(3.OA.B.6)** $20 \div 4 = \square$ means $\square \times 4 = 20$. Since $5 \times 4 = 20$, there are 5 stickers in each group. Option B (confuses divisor with quotient); Option D adds instead of divides.
- 10) **Choice D is correct.** **(3.NBT.A.1)** Numbers from 55 to 64 round to 60. The number 65 has ones $5 \geq 5$, so it rounds to 70, not 60.
- 11) **Choice B is correct.** **(3.NF.A.3d)** Same numerator (2): two halves = 1 whole, two thirds = part of a whole. Halves are bigger pieces than thirds. Rule: same numerator, smaller denominator ($2 < 3$) means bigger pieces, so $\frac{2}{2} > \frac{2}{3}$.
- 12) **Choice C is correct.** **(3.MD.B.3)** Count the stars and multiply by the scale: $3 \times 2 = 6$ stickers.
- 13) **Choice C is correct.** **(3.MD.C.5a)** Length times width: $5 \times 3 = 15$ unit squares of 1 inch by 1 inch.
- 14) **Choices A and B are correct.** **(3.NF.A.2a)** A and B are the direct descriptions of the unit fraction $\frac{1}{6}$. The fourth tick is $\frac{4}{6}$, not $\frac{5}{6}$, so C is false. D is false because the denominator is 6, and E is false because one part is $\frac{1}{6}$, not $\frac{1}{12}$.
- 15) **Choice A is correct.** **(3.G.A.2)** If 2 out of 3 parts are shaded, then 1 part is not shaded, which is $\frac{1}{3}$.
- 16) **The correct answer is 10.** **(3.OA.D.8)** First divide: $96 \div 8 = 12$ stickers in each group. Then subtract the stickers used: $12 - 2 = 10$ stickers left in one group.
- 17) **Choice C is correct.** **(3.MD.C.7)** The grid has 6 columns and 4 rows. Area = $6 \times 4 = 24$ square cm. You can also count: $6 + 6 + 6 + 6 = 24$ (four rows of six).
- 18) **Choice A is correct.** **(3.NF.A.1)** When you count three unit fractions of $\frac{1}{6}$, you add: $\frac{1}{6} + \frac{1}{6} + \frac{1}{6} = \frac{3}{6}$.
- 19) **Choice A is correct.** **(3.NF.A.3a)** Both Bar 1 and Bar 4 show $\frac{1}{3}$ shaded. They represent the same amount.
- 20) **Choice C is correct.** **(3.MD.C.7d)** Vertical part: $3 \times 8 = 24$ sq ft. Horizontal part: $5 \times 2 = 10$ sq ft. Total: $24 + 10 = 34$ sq ft.
- 21) **Choice C is correct.** **(3.NF.A.3b)** Multiply numerator and denominator by 2: $\frac{2 \times 2}{2 \times 2} = \frac{4}{4}$.
- 22) **Choice B is correct.** **(3.NF.A.3c)** $\frac{2}{2}$ and $\frac{4}{4}$ are both 1 whole. Numerator = denominator means you have all the parts.
- 23) **Choice A is correct.** **(3.OA.A.2)** $18 \div 3 = 6$. Divide the total number of pencils by the number of boxes.
- 24) **Choice B is correct.** **(3.MD.A.2)** Read the marking on the measuring cup: 200 mL.
- 25) **Choice C is correct.** **(3.NBT.A.3)** $2 \times 8 = 16$, then multiply by 10: $2 \times 80 = 160$. You multiply the single digits first, then add one zero.
- 26) **Choice D is correct.** **(3.OA.A.4)** Use the inverse: $8 \times 3 = 24$, so $24 \div 3 = 8$.
- 27) **Choice D is correct.** **(3.MD.C.5)** Area is the amount of space inside a flat shape. It is measured in square units such as square inches, square feet, or square centimeters. Perimeter and length use regular units (inches, feet), not square units.
- 28) **Choice D is correct.** **(3.MD.C.7b)** Area = length \times width = $6 \times 3 = 18$ square meters.
- 29) **Choice A is correct.** **(3.MD.C.7c)** Left rectangle: Area = 10, Height = 2, so Width = $10 \div 2 = 5$. Check: $2 \times (5 + 3) = 2 \times 8 = 16 = 10 + 6$.



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Star Player Pep Talk

Hi, Star Player!

◇ 5 practice tests. Every one of them was a chance to grow. You took every chance. That's why you're a math star today! ◇

★ **Star players know:** confidence comes from practice. You can't fake it. You build it. You built yours over 5 tests. It's real now! ★

Star Player Stats

- **Practice:** OFF THE CHARTS!
- **Skills:** BROAD! You can do many problem types.
- **Toughness:** HIGH! You don't quit on hard problems.
- **Game Plan:** READY! You know your strategies.

Star tip: on test day, take it one play at a time. One problem. Then the next. You will earn your stars!

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

Jay Daie

Your Math Coach

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5 Full-Length Practice Tests

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Answer Keys & Explanations

Detailed answers that show steps and clear reasoning.



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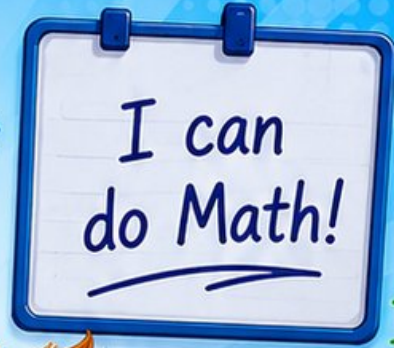
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- ✓ Data & Graphs
- ✓ Word Problems
- ✓ And More!



Visit testinar.com/math3 for more Grade 3 math resources and practice materials!



$$\begin{array}{r} 7 \times 8 \\ = 56 \end{array}$$

$$\begin{array}{r} 36 \\ \div 4 = 9 \end{array}$$

$$\begin{array}{r} 452 \\ - 178 \\ \hline = 274 \end{array}$$



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