

5

New Mexico

NM MSSA

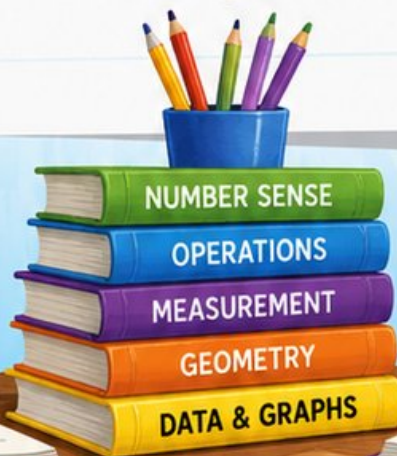
GRADE 3

MATH

PRACTICE TESTS

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

$24 \div 3 = 8$



5 FULL-LENGTH
PRACTICE TESTS



STANDARDS-
ALIGNED
PRACTICE



DETAILED
ANSWER KEYS



CLEAR
EXPLANATIONS
TO HELP YOU SUCCEED



3



$$\begin{array}{r} 125 \\ + 37 \\ \hline \end{array}$$



5 New Mexico NM-MSSA 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 New Mexico NM-MSSA. Each checkpoint is a full 30-question test, so you can practice stamina, accuracy, and the habit of showing what you know.

New Mexico has mesas, desert skies, pueblo roads, and patterns that can guide the way. 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 New Mexico 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.

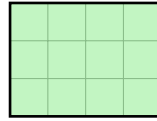


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& answers

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



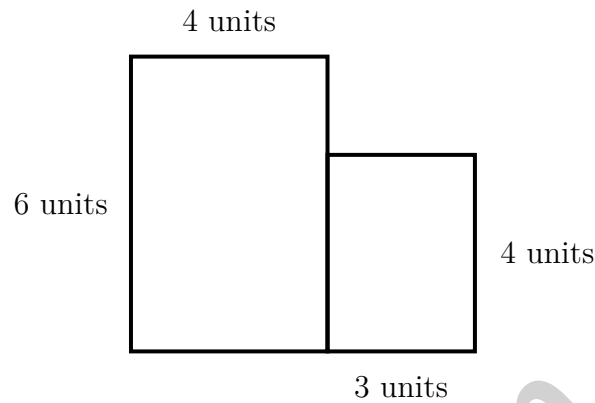
What is the area?

- A. 12 sq units C. 14 sq units
 B. 10 sq units D. 7 sq units
- 2) Ava has 15 stickers. She puts them equally into 5 envelopes. How many stickers does each envelope have?
- A. 10 C. 20
 B. 2 D. 3
- 3) A zoo has about 475 animals. Round to the nearest 100 to estimate.
- A. 400 C. 480
 B. 470 D. 500
- 4) Which shows why 4×20 equals 80?
- A. $(4 + 2) \times 10 = 60$ C. $4 \times (2 + 10) = 48$
 B. $4 + 2 + 10 = 16$ D. $(4 \times 2) \times 10 = 8 \times 10 = 80$

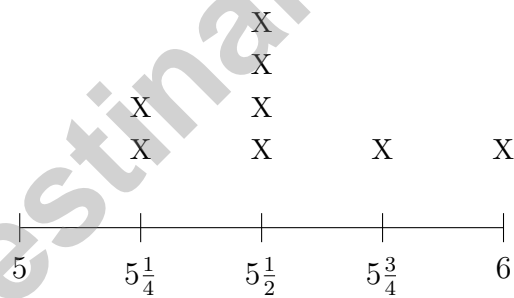


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- 5) An L-shaped playground is divided by dashed lines. The left rectangle is 4 units by 6 units. The right rectangle is 3 units by 4 units. What is the total area?



- A. 36 sq units C. 12 sq units
 B. 24 sq units D. 72 sq units
- 6) A line plot shows shell widths in centimeters: $5, 5\frac{1}{4}, 5\frac{1}{2}, 5\frac{3}{4}, 6$.



Which width has the most shells?

- A. $5\frac{1}{4}$ cm C. $5\frac{3}{4}$ cm
 B. $5\frac{1}{2}$ cm D. 6 cm

7) Ava has two ribbons. Both ribbons are the same length. She colors $\frac{3}{6}$ of one ribbon red and $\frac{1}{2}$ of the other ribbon red. Does she color the same amount on both ribbons?

- A. It depends on the ribbon length. C. Yes, both are the same.
 B. No, the first ribbon has more. D. No, the second ribbon has more.

8) There are 8 tables in the classroom. Each table has 4 chairs. How many chairs are there in total?

- A. 28 C. 36
 B. 30 D. 32

9) A rectangular piece of tile is 9 feet long and 2 feet wide. What is its area?

- A. 11 square feet C. 27 square feet
 B. 18 square feet D. 13 square feet

10) How many sides does a square have?



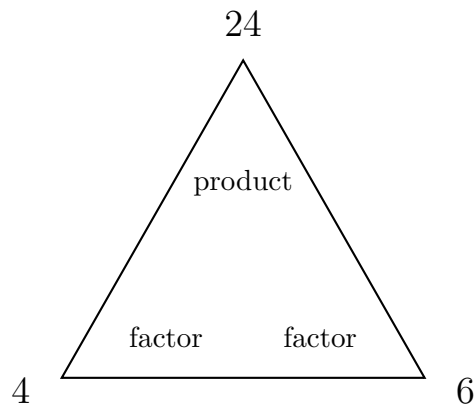
11) A picture graph shows cupcakes baked for a party. Each cupcake icon is 5 cupcakes. There are 7 icons. How many cupcakes were baked?

- A. 12 C. 35
 B. 30 D. 40



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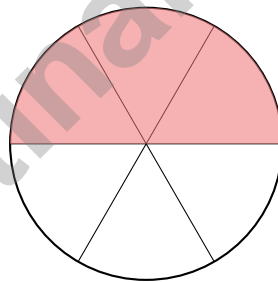
4) Look at the fact-family triangle below. If $4 \times 6 = 24$, what is $24 \div 4$?



- A. 4
 B. 28

- C. 24
 D. 6

5) A circle is divided into 6 equal parts. Three parts are shaded. Which fraction shows the shaded part?



- A. $\frac{1}{6}$
 B. $\frac{3}{6}$

- C. $\frac{3}{3}$
 D. $\frac{2}{6}$



1) There are 18 apples in a basket. 7 apples are eaten. Then 4 new apples are added. How many apples are in the basket now?

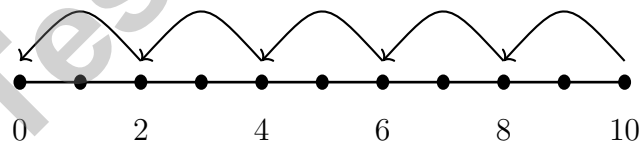
- A. 11 C. 15
 B. 14 D. 18

2) A rope is shown on a number line from 0 to 1 with 8 equal sections. Eli marks off one section. What fraction of the rope is one section?

- A. $\frac{1}{8}$ C. $\frac{8}{8}$
 B. $\frac{1}{7}$ D. $\frac{2}{8}$

3) A line plot shows book lengths in inches: $7, 7\frac{1}{4}, 7\frac{1}{2}, 7\frac{3}{4}, 8$. Measurements: 2 at 7 inches, 1 at $7\frac{1}{4}$ inches, 4 at $7\frac{1}{2}$ inches, 2 at $7\frac{3}{4}$ inches, and 1 at 8 inches. What is the range of book lengths?

4) Which number sentence is shown by the repeated subtraction on the number line?



- A. $10 \div 2 = 5$ C. $10 - 2 = 8$
 B. $10 \div 5 = 2$ D. $2 \times 5 = 10$



5) What number makes the equation true?

$$54 \div \square = 9$$

A. 9

C. 7

B. 8

D. 6

6) In a multiplication table, $2 \times 6 = 12$ and $6 \times 2 = 12$.

Why does this pattern always happen?

A. Because 2 and 6 are different numbers

C. Because 12 is an even number

B. Because the table is square-shaped

D. Because multiplication order does not change the product

7) Eli has a rectangle divided into 4 equal parts. What is the denominator of the unit fraction for one part?

A. 1

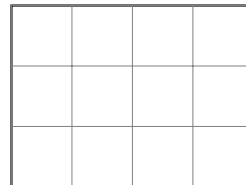
C. 4

B. 3

D. 5

8) Look at the rectangle below. How many square units cover the entire shape?

3 units



4 units

A. 7 square units

C. 14 square units

B. 8 square units

D. 12 square units



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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

- Choice A is correct. **(3.MD.C.6)** $4 \text{ columns} \times 3 \text{ rows} = 12 \text{ unit squares}$.
- Choice D is correct. **(3.OA.A.2)** $15 \div 5 = 3$. Sharing means dividing the total into equal groups.
- Choice D is correct. **(3.NBT.A.1)** The tens digit is 7. Since $7 \geq 5$, round up: 475 rounds to 500.
- Choice D is correct. **(3.NBT.A.3)** $4 \times 20 = 4 \times (2 \times 10) = (4 \times 2) \times 10 = 8 \times 10 = 80$. This uses associative property: you break 20 into 2×10 , multiply the single digits first, then multiply by 10.
- Choice A is correct. **(3.MD.C.7d)** Left: $4 \times 6 = 24 \text{ sq units}$. Right: $3 \times 4 = 12 \text{ sq units}$. Total: $24 + 12 = 36 \text{ sq units}$.
- Choice B is correct. **(3.MD.B.4)** At $5\frac{1}{2}$ there are 4 X's. At $5\frac{1}{4}$ there are 2, at $5\frac{3}{4}$ there is 1, and at 6 there is 1.
- Choice C is correct. **(3.NF.A.3a)** $\frac{3}{6} = \frac{1}{2}$ because both represent one-half of the ribbon.
- Choice D is correct. **(3.OA.A.4)** Multiply: $8 \times 4 = 32 \text{ chairs}$.
- Choice B is correct. **(3.MD.C.5)** Multiply length by width: $9 \times 2 = 18 \text{ square feet}$.
- The correct answer is 4 sides. **(3.G.A.1)** A square has 4 sides.
- Choice C is correct. **(3.MD.B.3)** $7 \times 5 = 35 \text{ cupcakes}$.
- The correct answer is 12 unit squares. **(3.MD.C.5a)** The rectangle is 6 units wide and 2 units tall: $6 \times 2 = 12 \text{ unit squares}$.
- Choice B is correct. **(3.NF.A.3)** $\frac{1}{2}$ and $\frac{4}{8}$ both equal half of a whole.
- Choices A and C are correct. **(3.NF.A.2b)** $\frac{4}{4}$ and 1 both refer to one whole unit. They mark the same point. Distractor $\frac{2}{4} = \frac{1}{2}$ is different. Distractor $\frac{1}{2}$ is different from 1. Distractor $\frac{3}{4}$ is between $\frac{1}{2}$ and 1.
- Choice A is correct. **(3.NF.A.2a)** Six equal parts means the first tick is at unit fraction $\frac{1}{6}$.
- The correct answer is 35 sq cm. **(3.MD.C.7b)** Area = length \times width, so $7 \times 5 = 35 \text{ square centimeters}$.
- Choice A is correct. **(3.OA.C.7)** $3 \times 8 = 24$. Think of three groups of 8: $8 + 8 + 8 = 24$.
- Choice B is correct. **(3.OA.D.8)** Step 1: Add the marbles: $9 + 6 = 15$. Step 2: Divide into 3 equal groups: $15 \div 3 = 5$ marbles in each group. (Choice D is the answer to step 1 only.)
- Choice B is correct. **(3.NF.A.3d)** Same numerator (4): four fourths equals one whole bar, while four eighths is only half the bar. Fourth are bigger pieces than eighths, so $\frac{4}{4} > \frac{4}{8}$.
- Choice A is correct. **(3.MD.C.7)** Area = $9 \times 2 = 18 \text{ square feet}$.
- Choice B is correct. **(3.MD.C.5b)** Counting the 8 unit squares in the grid gives an area of 8 square units.
- Choice C is correct. **(3.NF.A.2)** Moving right from $\frac{2}{4}$, the next tick mark shows $\frac{3}{4}$.
- Choice D is correct. **(3.OA.B.6)** A bar model dividing a total into equal parts shows division. 30 split into 5 equal parts means each part is $30 \div 5 = 6$.
- Choice B is correct. **(3.MD.C.7c)** Add the two areas: $3 \times 6 = 18$ and $3 \times 4 = 12$, total is 30 square units.
- Choice B is correct. **(3.MD.A.1)** $3 : 45 - 12 \text{ min} = 3 : 33 \text{ PM}$.
- Choice D is correct. **(3.OA.A.1)** The picture shows 2 rows with 5 circles in each row. So $2 \times 5 = 10$ or $5 \times 2 = 10$.
- Choice A is correct. **(3.NF.A.3b)** Eli ate $\frac{1}{2}$ and Noah ate $\frac{2}{4}$. These are equivalent: $\frac{1 \times 2}{2 \times 2} = \frac{2}{4}$.
- Choice D is correct. **(3.NF.A.3c)** $\frac{3}{1} = 3 \text{ wholes}$. Any number divided by 1 equals itself.
- Choice A is correct. **(3.MD.A.2)** 4 kg = 4000 g, which is more than 2500 g.
- Choice C is correct. **(3.OA.D.9)** The pattern adds 3 each week: 3, 6, 9, 12. This is skip counting by 3.

Practice Test 2 Answers and Explanations

- Choice D is correct. **(3.MD.C.6)** Area = $9 \times 3 = 27 \text{ square meters}$.



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Hi, Math Family Member,

◇ Welcome to a special note from your math family. You finished 5 full practice tests, and that hard work matters more than any score. We see you. We are proud of you. ◇

★ **Our math family knows:** math is a journey. You have taken many steps already. The test is just one stop. Every skill you built is yours forever. ★

What Your Math Family Sees

- **Hard Work:** You keep showing up.
- **Real Growth:** You can do problems today you couldn't before.
- **Brave Heart:** You face hard problems with brave thinking.
- **Bright Future:** Your math journey is just beginning.

Family tip: on test day, picture us standing behind you, smiling and rooting for you. You are not alone. Your math family is with you!

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

Jay Daie

Your Math Family

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



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

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

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



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