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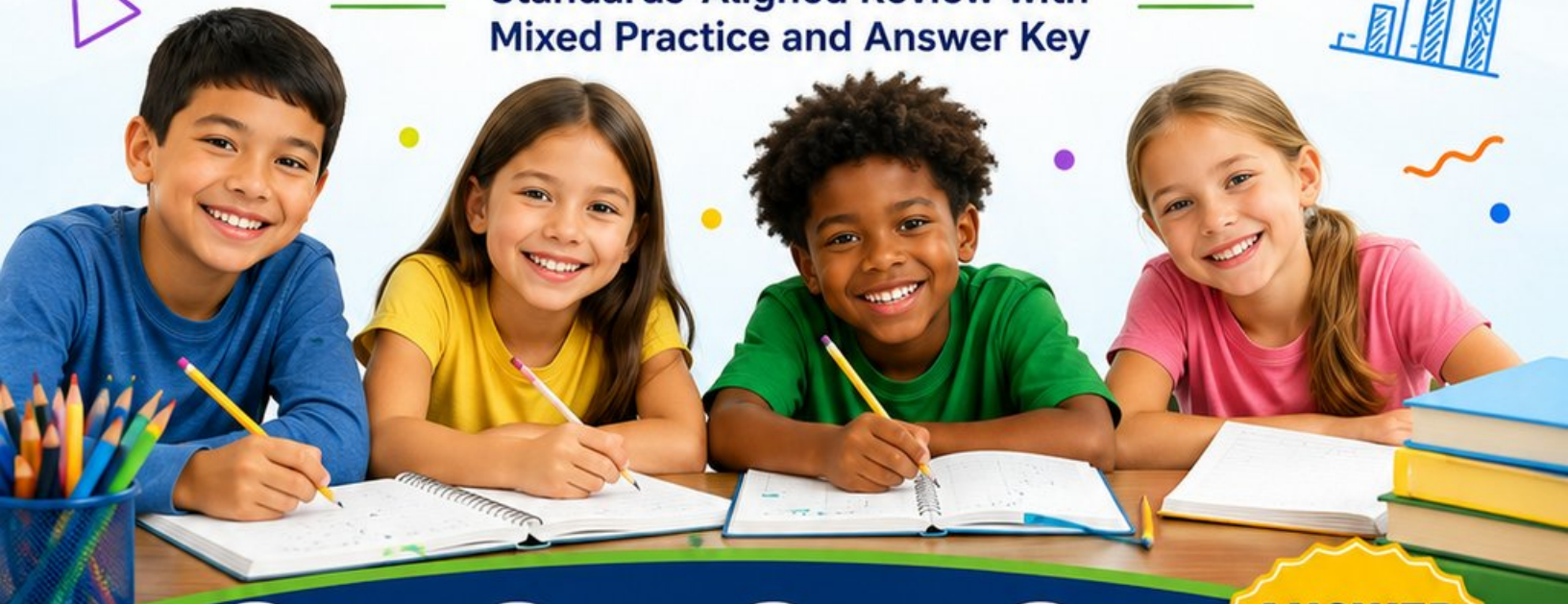
Michigan

M STEP

GRADE 4 MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



7 Full-Length
Practice Tests



Standards-
Aligned



Build Confidence
and Skills



Mixed Question
Types

**ANSWER
KEY**

INCLUDED

$$\begin{array}{r} 25 \\ +37 \\ \hline 62 \end{array}$$

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

7 Michigan M-STEP Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Seven complete 30-question Grade 4 practice rounds for M-STEP, built around Great Lakes shorelines, forest roads, and reliable checking, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Michigan Math Explorer!

Seven steady rounds on the Great Lakes math route

This book gives you seven full Grade 4 practice tests for M-STEP. Each round uses Great Lakes shorelines, forest roads, and reliable checking to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Michigan 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 Michigan M-STEP 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 Great Lakes 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?

Seven tests, 210 questions, and a full M-STEP 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 5–7	Stamina rounds for mixed review, neat work, and flexible strategies.
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 baker has $\frac{11}{8}$ pounds of sugar. Which shows one way to decompose this?

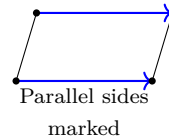
A. $\frac{8}{8} + \frac{3}{8}$

B. $\frac{5}{8} + \frac{4}{8} + \frac{1}{8}$

C. $\frac{7}{8} + \frac{3}{8}$

D. $\frac{6}{8} + \frac{4}{8}$

2) Which figure has at least one pair of parallel sides?

 A. Trapezoid B. Triangle C. Pentagon D. Hexagon

3) A rectangle is divided into 8 equal columns. 5 columns are painted red. Show the red fraction as a sum of unit fractions.



5 red columns out of 8

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

B. $\frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5} + \frac{1}{5}$

 C. 5 parts of 5

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

4) Write a fraction that is equivalent to $\frac{1}{4}$.



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5)

\$2K	\$4K	\$3K	\$2K	\$1K
Monday	Tuesday	Wednesday	Thursday	Friday

The chart shows a store’s rounded daily sales, in thousands of dollars. How much more did they sell Monday through Wednesday than Thursday and Friday combined?

- A. \$6,000
- B. \$8,000
- C. \$10,000
- D. \$7,000

6) If an angle has 38 one-degree angles, what is its measure?

- A. 38°
- B. 19°
- C. 76°
- D. 380°

7) A small factory packs 3,024 toys into boxes. How many boxes of 6 toys per box can they fill?

3,024 toys total



Divide by 6 toys per box



boxes

? boxes

- A. 504
- B. 514
- C. 494
- D. 524

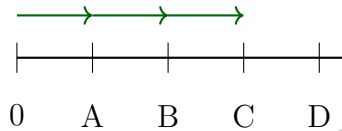
8) A straight angle of 180° is divided into five equal parts. What is the measure of each part?

9) Use the place-value table to identify the standard form:

Ten-Thousands	Thousands	Hundreds	Tens	Ones
2	0	9	3	5

- A. 209,350 C. 20,093
 B. 2,935 D. 20,935

10) Sam has a number line with hops of $\frac{1}{4}$. Which point represents $3 \times \frac{1}{4}$?



- A. Point A C. Point C
 B. Point B D. Point D

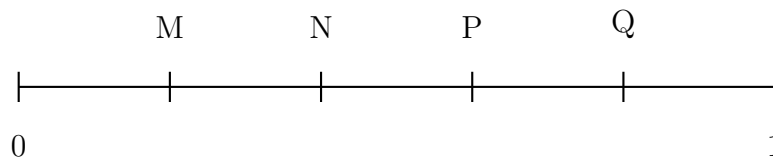
11) Which type of angle would you find at the corner of a picture frame?

- A. Acute angle C. Obtuse angle
 B. Right angle D. Straight angle

12) Which fraction is NOT equal to $\frac{1}{2}$?

- A. $\frac{3}{6}$ C. $\frac{5}{10}$
 B. $\frac{4}{8}$ D. $\frac{2}{5}$

13) Which letter shows the location of 0.8 on the number line?

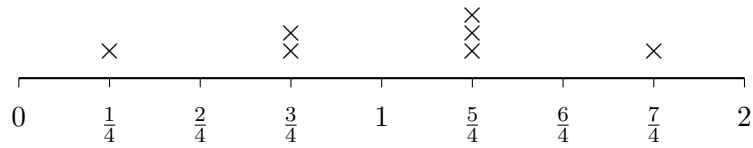


- A. At M C. At P
 B. At N D. At Q



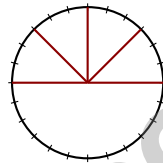
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7) Here is a line plot with fourths:



Which value has exactly 2 more X marks than $\frac{1}{4}$?

- A. $\frac{2}{4}$
 C. $\frac{7}{4}$
 B. $\frac{5}{4}$
 D. 2



8)

A full circle is shown with several rays drawn inside. How many degrees are in the full circle?

- A. 90°
 C. 360°
 B. 180°
 D. 720°

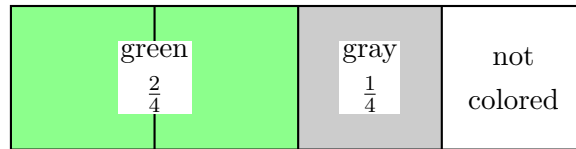
9) A pie is divided into 11 equal slices. Tom eats 5 slices. Which correctly shows the fraction eaten as a sum of unit fractions?

- A. 5 copies of $\frac{1}{11}$
 C. 5 copies of $\frac{1}{5}$
 B. 11 copies of $\frac{1}{11}$
 D. 6 copies of $\frac{1}{11}$



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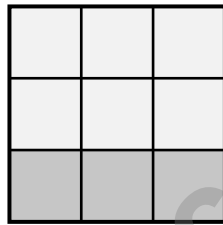
4)



A yard is divided into 4 equal parts. Green shows $\frac{2}{4}$ and gray shows $\frac{1}{4}$. What fraction is not colored?

- A. $\frac{3}{4}$
- B. $\frac{1}{4}$

- C. $\frac{2}{4}$
- D. $\frac{4}{4}$



9 equal pieces

5)

A chocolate bar has 9 pieces. Each piece is $\frac{1}{9}$ of the bar. If you eat 3 pieces, what fraction of the bar do you eat?

- A. $\frac{3}{27}$ of the bar
- B. $\frac{3}{9}$ of the bar (or $\frac{1}{3}$ of the bar)

- C. $\frac{1}{27}$ of the bar
- D. $\frac{6}{9}$ of the bar

6) Three hops of $\frac{1}{4}$ land at what fraction?

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.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice A is correct.** (4.NF.B.3) The baker has $\frac{11}{8}$ pounds. One whole is $\frac{8}{8}$, leaving $11 - 8 = 3$ more eighths. So: $\frac{8}{8} + \frac{3}{8} = \frac{11}{8}$ ✓.
- Choice A is correct.** (4.G.A.2) The arrows clearly mark exactly one pair of parallel sides, which is the defining characteristic of a trapezoid. The other two sides are not parallel. The answer is **A**.
- Choice A is correct.** (4.NF.B.3) The rectangle has 8 equal columns, and 5 are painted red. So $\frac{5}{8}$ is red, which is $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$ —five unit fractions.
- The correct answer is $\frac{2}{8}$.** (4.NF.A.1) Multiply (or divide) both the numerator and denominator by the same number. Any of these work: $\frac{2}{8}$, $\frac{3}{12}$, $\frac{5}{20}$, etc. All have the same value as $\frac{1}{4}$!
- Choice A is correct.** (4.NBT.B.4) Step 1: Add Mon-Wed: $2,000 + 4,000 + 3,000 = 9,000$. Step 2: Add Thu-Fri: $2,000 + 1,000 = 3,000$. Step 3: Subtract: $9,000 - 3,000 = 6,000$.
- Choice A is correct.** (4.MD.C.5) An angle made of 38 one-degree angles has a measure of **38°** .
- Choice A is correct.** (4.NBT.B.6) Divide: $30 \div 6 = 5$, bring down the 2 to get $2 \div 6 = 0$ r2, bring down the 4 to get $24 \div 6 = 4$. The factory can fill **504** boxes.
- The correct answer is 36.** (4.MD.C.7) Split the straight angle equally into five parts: $180^\circ \div 5 = 36^\circ$.
- Choice D is correct.** (4.NBT.A.2) From the table: ten-thousands: 2, thousands: 0, hundreds: 9, tens: 3, ones: 5 \rightarrow 20,935 ✓
- Choice C is correct.** (4.NF.B.4) Starting at 0, each hop moves us forward by $\frac{1}{4}$. After three hops, we land at $3 \times \frac{1}{4} = \frac{3}{4}$, which is Point C.
- Choice B is correct.** (4.MD.C.5) The corners of a picture frame are right angles (perfect square corners).
- Choice D is correct.** (4.NF.A.1) Which is NOT $\frac{1}{2}$? The first three all reduce to $\frac{1}{2}$: $\frac{3}{6} = \frac{4}{8} = \frac{5}{10} = \frac{1}{2}$. But $\frac{2}{5}$ is less than half.
- Choice D is correct.** (4.NF.C.5) The number line marks tenths: 0.2, 0.4, 0.6, 0.8. The decimal 0.8 lands on the fourth mark, which is at position Q.
- Choice C is correct.** (4.NF.B.3) Add the wholes: $2 + 1 = 3$. Add the fractions: $\frac{3}{10} + \frac{4}{10} = \frac{7}{10}$. The total is **$3\frac{7}{10}$** miles.
- The correct answer is A, C.** (4.MD.A.3) Check A: Area = $10 \times 6 = 60$ sq ft ✓ Check C: Perimeter = $2(10) + 2(6) = 32$ ft ✓ The other options are incorrect.
- Choice C is correct.** (4.NF.B.4) We take 6 copies of $\frac{1}{8}$. Multiply: $6 \times \frac{1}{8} = \frac{6 \times 1}{8} = \frac{6}{8} = \frac{3}{4}$. The answer is $\frac{3}{4}$.
- Choice B is correct.** (4.G.A.3) The letter V looks like two lines meeting at a point at the bottom. A vertical line down the middle divides the left and right halves so they match. The answer is **1** line of symmetry.
- The correct answer is 3.** (4.OA.B.4) Find every pair that multiplies to 28: 1×28 , 2×14 , 4×7 . (Note: 3, 5, and 6 don't divide 28 evenly.) So there are **3** factor pairs.
- Choice A is correct.** (4.NF.C.5) Compare tenths: $5 > 3$. Among the two with tenths = 5, compare hundredths: $5 > 3$, so $0.55 > 0.53$. Among the two with tenths = 3, compare hundredths: $5 > 3$, so $0.35 > 0.33$.
- Choice C is correct.** (4.OA.A.1) "3 times as many" is a multiplication clue. Make 3 groups of the 5 green marbles: $5 \times 3 = 15$ red marbles. Choice C is the equation that shows this.
- Choice D is correct.** (4.NBT.A.1) In 1,111: hundreds place is worth 100 and tens place is worth 10. Since $100 \div 10 = 10$, the hundreds is 10 times the tens. Statement A is true. ✓
- Choice C is correct.** (4.NF.C.5) Convert $\frac{1}{10}$ to hundredths: $\frac{1}{10} = \frac{10}{100}$. Now add the two fractions with the same denominator: $\frac{10}{100} + \frac{45}{100} = \frac{55}{100}$.
- Choice A is correct.** (4.NF.B.3) The runner completes laps over two time periods. Add the mixed numbers: $1\frac{3}{5} + 2\frac{1}{5} = 3\frac{4}{5}$ laps total.
- Choice D is correct.** (4.OA.B.4) Double each term: 2, 4, 8, 16, 32, 64, **128**. The 7th term is **128**.
- Choice D is correct.** (4.OA.A.3) Two steps! Step 1: share equally among teams: $96 \div 6 = 16$ uniforms per team. Step 2: each team gives away 5: $16 - 5 = 11$ uniforms left per team.



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Hi, Math Athlete!

◇ 7 practice tests done! That's serious training. Your math muscles are strong. You are in great shape for the big test. ◇

★ **Trainers know:** muscle memory is real. The more you practice, the more your brain knows what to do without thinking. You built that muscle memory! ★

Athlete Performance

- **Endurance:** TOP! You can finish a long test.
- **Strength:** STRONG! You handle hard problems.
- **Speed:** JUST RIGHT! You don't rush.
- **Recovery:** GOOD! You bounce back from tough questions.

Trainer tip: on test day, drink water, breathe deeply, and warm up with the easier questions first. Your training will carry you the rest of the way!

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

Jay Daie

Your Math Trainer

7 FULL-LENGTH TESTS TO MASTER GRADE 4 MATH!

This **Grade 4 Math Practice Tests** book provides the practice your child needs to build strong math skills, understand key concepts, and gain the confidence to succeed on every test.

With 7 full-length practice tests, a wide range of question types, and detailed answer explanations, students will improve accuracy, strengthen problem-solving abilities, and prepare for classroom success and beyond.



PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Confidence Building
- ✓ Skill Reinforcement

★ CONFIDENCE IN MATH.
SUCCESS FOR LIFE.

WHAT STUDENTS WILL GAIN



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Test Confidence

Become familiar with test-style questions and formats.



Track Progress

Measure growth across multiple practice tests.



Academic Success

Strengthen skills needed for future learning.

$$\begin{array}{r} 45 \\ -17 \\ \hline 28 \end{array}$$



$$7 \times 8 = 56$$

TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Multi-Digit Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals & Comparing Numbers
- ✓ Geometry & Shapes
- ✓ Measurement & Data
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ Graphs & Data Interpretation
- ✓ And More!



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Mixed Question Types



Answer Key Included