

4

Michigan

M STEP

GRADE 4

MATH

PRACTICE TESTS



5 FULL-LENGTH
PRACTICE TESTS



STANDARDS-ALIGNED
REVIEW



MIXED PRACTICE
QUESTIONS



ANSWER KEY
INCLUDED

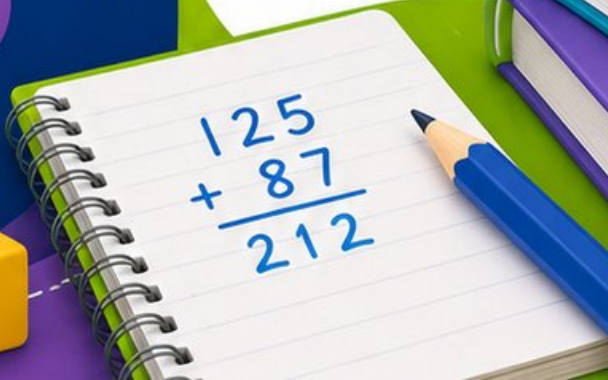


Standards-Aligned Review with
Mixed Practice and Answer Key



$$4 \times 7 = 28$$

$$36 \div 9 = 4$$



4 Michigan M-STEP Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Four focused 30-question missions for Grade 4 math: number facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Michigan Math Explorer!

Four steady rounds on the Great Lakes math route

This book gives you four 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?

Four tests, 120 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 2–4	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 2–4	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.



Scan me!
For more practice
& answers

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1) Line segment PQ and line segment QP are:

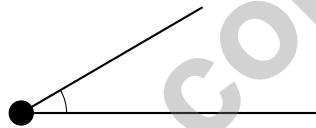
- A. Different segments C. Perpendicular
 B. The same segment D. Parallel

2) Expand 2,814 using the place-value model:

Thousands	Hundreds	Tens	Ones
2	8	1	4

- A. $2,000 + 8,000 + 14$ C. $2 + 8 + 1 + 4$
 B. $2,000 + 80 + 14$ D. $2,000 + 800 + 10 + 4$

3)



Which statement is true about this angle?

- A. It is larger than a right angle C. It is equal to a right angle
 B. It is smaller than a right angle D. It is a straight angle



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4) Which area model shows 23×14 ?

A.

20	3
10	4

B.

20	4
10	4

C.

20	3
10	6

D.

20	3
10	5

5) How many lines of symmetry does a square have?

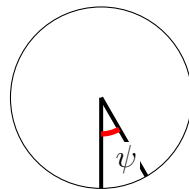
A. 1

C. 3

B. 2

D. 4

6)



What is the measure of angle ψ shown in the diagram?

A. 20°

C. 45°

B. 30°

D. 60°



7) What is $2\frac{3}{5} + 1\frac{1}{5}$?

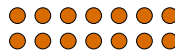
A. $3\frac{2}{5}$

B. $3\frac{3}{5}$

C. $3\frac{4}{5}$

D. $4\frac{4}{5}$

Paige



Quinn

8)

Paige has 7 bookmarks. Quinn has 2 times as many bookmarks as Paige. How many bookmarks does Quinn have?

9) Add: $23,567 + 14,321 = ?$

A. 37,888

B. 37,878

C. 38,888

D. 37,788

10) An angle of 156° is split into two smaller angles. If one angle is 89° , what is the measure of the other angle?



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1) Which of the following equals $\frac{11}{12}$?

A. $11 + \frac{1}{12}$

B. $11 \times \frac{1}{12}$

C. $\frac{1}{11} \times 12$

D. $\frac{12}{11}$

2) Which fraction bar shows $\frac{4}{6} + \frac{2}{6}$?



$$\frac{4}{6} \text{ (green)} + \frac{2}{6} \text{ (orange)}$$

A. $\frac{4}{12}$

B. $\frac{6}{6}$

C. $\frac{6}{12}$

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

3) An angle of 150° is split into two parts. One part measures 85° . What does the other part measure?

A. 65°

B. 75°

C. 235°

D. 85°

4) A turn of 120° is what fraction of a complete rotation?

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

B. $\frac{1}{3}$

C. $\frac{2}{5}$

D. $\frac{1}{2}$

5) What is $4\frac{5}{6} - 2\frac{1}{6}$?

A. $2\frac{2}{6}$

B. $2\frac{3}{6}$

C. $2\frac{4}{6}$

D. $3\frac{3}{6}$



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6) What is $2 \times \frac{2}{5}$?

A. $\frac{2}{10}$

B. $\frac{4}{5}$

C. $\frac{2}{5}$

D. $\frac{4}{10}$

7) What is the sixth multiple of 4?

8) A clothing store received 2,736 buttons in a shipment. They sew an equal number of buttons on 6 different shirts. How many buttons go on each shirt?

A. 454

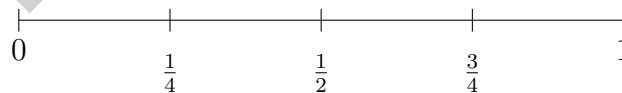
B. 444

C. 456

D. 434

9) Triple $\frac{3}{4}$.

10) Three fractions are shown on the number line. Which is closest to 1?

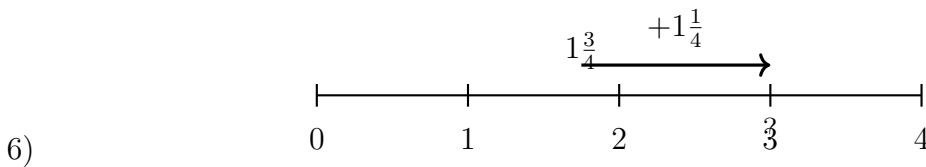


A. $\frac{1}{4}$

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

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

 D. All are equally close



Using the number line, what is $1\frac{3}{4} + 1\frac{1}{4}$?

- A. 3

 C. $2\frac{1}{4}$
 B. $2\frac{3}{4}$

 D. $3\frac{1}{4}$
- 7) Which description names a figure that would be symmetric about the described line?
- A. A right triangle with the line parallel to the hypotenuse

 C. A scalene triangle with the line through the center
 B. An isosceles triangle with the line through the vertex angle

 D. A right triangle with legs of different lengths
- 8) Which number rounds to 40,000 when rounded to the nearest thousand?
- A. 39,250

 C. 40,499
 B. 40,750

 D. 40,501
- 9) A quadrilateral has two pairs of parallel sides and four right angles, but the sides are not all equal. What is it?
- A. Square

 C. Rhombus
 B. Rectangle

 D. Trapezoid



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 B is correct.** (4.G.A.1) Whether you call it segment PQ or segment QP , you're describing the exact same straight path between the two points. The order doesn't matter.
- Choice D is correct.** (4.NBT.A.2) From the chart: thousands \rightarrow 2,000, hundreds \rightarrow 800, tens \rightarrow 10, ones \rightarrow 4 \checkmark
- Choice B is correct.** (4.MD.C.5) This angle is acute because it has a small opening, smaller than a right angle (90 degrees).
- Choice A is correct.** (4.NBT.B.5) An area model splits both factors: $23 = 20 + 3$ (across) and $14 = 10 + 4$ (down). Choice A shows these parts correctly.
- Choice D is correct.** (4.G.A.3) A square is perfectly balanced! Imagine folding it in half four different ways: vertically through the center, horizontally through the center, and diagonally both directions—each fold creates matching halves. The answer is 4 lines of symmetry.
- Choice B is correct.** (4.MD.C.5) The angle spans from 270° to 300° , measuring 30° .
- Choice C is correct.** (4.NF.B.3) Add the wholes: $2 + 1 = 3$. Add the fractions: $\frac{3}{5} + \frac{1}{5} = \frac{4}{5}$. Put them together: $3\frac{4}{5}$.
- The correct answer is 14.** (4.OA.A.2) Quinn's group has 2 rows of 7 bookmarks—"2 times as many." Multiply: $2 \times 7 = 14$ bookmarks.
- Choice A is correct.** (4.NBT.B.4) Add by place value: ones $7 + 1 = 8$, tens $6 + 2 = 8$, hundreds $5 + 3 = 8$, thousands $3 + 4 = 7$, ten-thousands $2 + 1 = 3$. The sum is **37,888**.
- The correct answer is 67.** (4.MD.C.7) The angle is split into two parts. Subtract to find the missing angle: $156^\circ - 89^\circ = 67^\circ$.
- Choice A is correct.** (4.MD.C.5) The angle extends from 0° to 40° , giving us 40° .
- Choice C is correct.** (4.MD.A.1) Since 1 kilometer = 1,000 meters, multiply: $4 \times 1,000 = 4,000$ m. The answer is 4,000 m.
- Choice D is correct.** (4.OA.A.1) "2 times as long" is a multiplication signal. The length is $7 \times 2 = 14$ feet.
- Choice C is correct.** (4.OA.A.3) Read the table for the totals, then combine. Step 1: $18 + 24 + 30 = 72$ books in all. Step 2: share among 9 classrooms: $72 \div 9 = 8$ books each.
- Choice D is correct.** (4.NBT.A.3) We're rounding to the nearest ten. Look at the ones digit: 2. Since $2 < 5$, we round DOWN. The tens digit stays at 9, giving us **27,390**. \checkmark
- Choice B is correct.** (4.NF.B.4) Let's calculate both: $5 \times \frac{1}{3} = \frac{5}{3} = 1\frac{2}{3}$ and $4 \times \frac{1}{2} = \frac{4}{2} = 2 = \frac{6}{3}$. Since $\frac{6}{3} > \frac{5}{3}$, $4 \times \frac{1}{2}$ is larger. The answer is $4 \times \frac{1}{2}$ is larger.
- The correct answer is A, D.** (4.NF.C.5) Option A: Convert $\frac{3}{10} = \frac{30}{100}$, so $\frac{30}{100} + \frac{40}{100} = \frac{70}{100}$ (true). Option D: Divide by 10 to get $\frac{20}{100} = \frac{2}{10}$ (true). The others are false: B is reversed (7 tenths $<$ 65 hundredths), C is wrong ($\frac{5}{10} = \frac{50}{100}$, not $\frac{5}{100}$), and E is very wrong ($\frac{1}{10} \neq 1$).
- Choice C is correct.** (4.G.A.2) A parallelogram is defined by having two pairs of opposite sides that are equal and parallel. A figure is a rectangle only when it also has four right angles at each corner. The answer is C.
- Choice A is correct.** (4.NF.A.1) Multiply the numerator and denominator by 2: $\frac{3}{5} = \frac{3 \times 2}{5 \times 2} = \frac{6}{10}$.
- Choice A is correct.** (4.NF.B.3) The cake recipe uses sugar and flour as shown in the picture. Add them with like denominators: $\frac{4}{6} + \frac{2}{6} = \frac{6}{6}$ cups total.
- Choice A is correct.** (4.NF.A.1) Same denominator, so compare numerators. Since $6 < 9$, we have $\frac{6}{12} < \frac{9}{12}$.
- Choice B is correct.** (4.MD.C.6) A straight angle is perfectly flat—it's a straight line with two rays pointing opposite directions. This special angle always measures exactly 180° , which is the full width of the protractor. The answer is **180** degrees.
- Choice B is correct.** (4.NF.C.5) When you say "zero point nineteen" out loud, you're reading the decimal 0.19.
- Choice B is correct.** (4.NF.B.3) The bar shows three shaded sections: $\frac{1}{6}$, $\frac{4}{6}$, and $\frac{1}{6}$. Add all three numerators: $1 + 4 + 1 = 6$ sixths = 1 whole.
- Choice B is correct.** (4.NF.B.3) When we add unit fractions with the same denominator, we keep the denominator and add the numerators. $\frac{1}{4} + \frac{1}{4} + \frac{1}{4}$ has three 1's in the numerator, so it equals $\frac{3}{4}$. The other choices incorrectly change the denominator.



Lab Notes for a Young Scientist

Hi, Curious Scientist!

◇ 4 tests. So many experiments! You tested ideas. You watched what worked. You learned a lot. That's how scientists work—and how you work! ◇

★ **Scientists know:** mistakes are facts, not failures. Every problem you missed taught you something. You used those facts to do better next time. ★

Lab Results

- **Hypothesis:** CONFIRMED! Practice makes you better.
- **Method:** STRONG! You try, watch, and adjust.
- **Data:** CAREFUL! You read and copy numbers right.
- **Conclusion:** READY! You can do this test.

Scientist tip: on test day, stay curious. Ask, "What is this asking?" Then experiment with your math tools. You will find the answer!

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

Jay Daie

Your Math Scientist

PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students build strong math skills, master key concepts, and gain the confidence they need to excel.

With 4 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to strengthen problem-solving skills and achieve their best.

Perfect for classroom use, homework, test preparation, and extra practice at home.

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

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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.



Prepare for Success

Build the confidence needed to do your best on test day.

TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Decimals
- ✓ Geometry & Measurement
- ✓ Data, Graphs & Line Plots
- ✓ Perimeter & Area
- ✓ Patterns & Algebraic Thinking
- ✓ Word Problems
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