

6 Michigan M STEP

GRADE 4 MATH PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



MASTER KEY MATH CONCEPTS
BUILD CONFIDENCE FOR TEST DAY

INCLUDES COMPREHENSIVE ANSWER KEY
ALIGNED STATE STANDARDS

6 Michigan M-STEP Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Six 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.

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Welcome, Michigan Math Explorer!

Six steady rounds on the Great Lakes math route

This book gives you six 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?

Six tests, 180 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 4–6	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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& answers

Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	27
★ Practice Test 3	_____	37
★ Practice Test 4	_____	48
★ Practice Test 5	_____	60
★ Practice Test 6	_____	72
Practice Test Answer Keys	_____	82
Practice Test Answers and Explanations	_____	86

- 1) A farmer plants 5 rows of vegetables. Each row has 15 plants. How many plants does the farmer plant in total?

- 2) The long division diagram shows $2,688 \div 3$. What is the quotient?

$$\begin{array}{r} \text{quotient} \\ 896 \\ 3 \overline{) 2688} \\ \underline{-24} \\ 28 \\ \underline{-27} \\ 18 \\ \underline{-18} \\ 0 \end{array}$$

- A. 876 C. 906
 B. 886 D. 896
- 3) How many lines of symmetry does a regular triangle have?
- A. 0 C. 2
 B. 1 D. 3
- 4) Diego bought two toy cars. One costs \$0.39 and the other costs \$0.93. Which toy car is more expensive?
- A. The first car (\$0.39) C. Both cost the same
 B. The second car (\$0.93) D. The first car is more expensive



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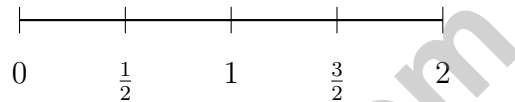
5) A function rule is “add 12.” If the input is 8, what is the output?

- A. 96 C. 4
 B. 19 D. 20

6) What is the product of $8 \times \frac{1}{4}$?

- A. $\frac{1}{32}$ C. $\frac{8}{1}$
 B. $\frac{8}{4}$ or 2 D. $\frac{4}{8}$

7) Maya drew a number line with hops of $\frac{1}{2}$. How many hops to go from 0 to $\frac{3}{2}$?



- A. 1 hop C. 3 hops
 B. 2 hops D. 4 hops

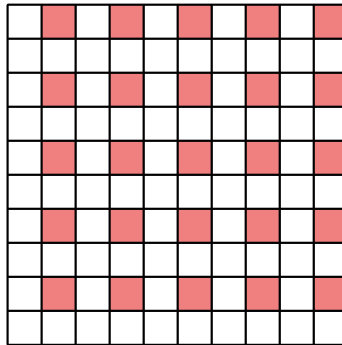
8) One basket holds 5 apples. Another basket holds 6 times as many apples. What is the total number of apples in both baskets?

9) School starts at 8:45 a.m. If school runs for 6 hours, what time does it end?

- A. 2:45 p.m. C. 2:45 a.m.
 B. 3:00 p.m. D. 12:45 p.m.

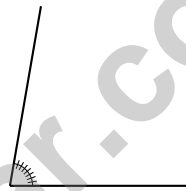


10) How many hundredths are shaded in this grid?



- A. 25 hundredths or 0.25 C. 75 hundredths or 0.75
 B. 50 hundredths or 0.50 D. 100 hundredths or 1.00

11)



Count the intervals from 0 to 80 in this angle. What is the measure?

- A. 10° C. 80°
 B. 40° D. 81°

12) Looking at a number line, if you make 4 jumps of $\frac{1}{6}$ each, what is your final position?

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



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1) A school library has 12 books about animals. It has 4 times as many books about sports. How many sports books does the library have?

A. 16

C. 42

B. 32

D. 48

2) Diego cut a submarine sandwich into 8 equal pieces and ate 4 pieces. Maya cut an identical sandwich into 4 equal pieces and ate 2 pieces. Did they eat equivalent amounts?

A. Yes, both ate $\frac{1}{2}$

C. No, Diego ate more

B. Yes, both ate $\frac{1}{4}$

D. No, Maya ate more

3) Which is another way to write $\frac{1}{2} + \frac{1}{2} + \frac{1}{2}$?

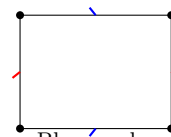
A. $\frac{3}{2}$

C. $\frac{2}{3}$

B. $\frac{1}{6}$

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

4) Look at the shape with tick marks. The tick marks show:



Blue marks:
top/bottom

Red marks: sides

A. Opposite sides are equal

C. Adjacent sides are equal

B. All sides are equal

D. No sides are equal



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& answers

5) A pizza is cut into 12 equal slices. Mia eats 7 slices. What fraction of the pizza did Mia eat?

- A. $\frac{7}{12}$
 B. $\frac{12}{7}$

- C. $\frac{5}{12}$
 D. $\frac{7}{7}$

6) Sam bought $\frac{4}{8}$ pound of almonds. His mom bought $\frac{3}{8}$ pound. How many pounds of almonds did they buy together, as a fraction or mixed number?

7) A toy store received 2,016 action figures in a shipment. They need to pack them into 9 boxes equally. How many figures go in each box?

- A. 224
 B. 228

- C. 220
 D. 216

8) A basketball game starts at 6:00 p.m. and ends at 8:30 p.m. How long is the game?

Start	End
6:00 p.m.	8:30 p.m.

- A. 1 hour
 B. 2 hours

- C. 2 hours 30 minutes
 D. 3 hours



1) What is $7 \times \frac{1}{3}$ as a fraction?

2) A rectangular yard is 20 feet long and 15 feet wide. How much fencing is needed to go around it?

A. 35 ft

C. 300 ft

B. 70 ft

D. 140 ft

3) Sam has $1\frac{2}{4}$ yards of red ribbon and $2\frac{1}{4}$ yards of blue ribbon. How many yards of ribbon does Sam have in total?

A. $2\frac{3}{4}$ yards

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

B. $3\frac{2}{4}$ yards

D. $4\frac{1}{4}$ yards

4) Which statement about the letter N is correct?

A. It has 1 line of symmetry

C. It has no line of symmetry

B. It has 2 lines of symmetry

D. It has 4 lines of symmetry



5) $3 \text{ times } \begin{array}{|c|} \hline 5 \\ \hline \end{array} \begin{array}{|c|} \hline ? \\ \hline \end{array}$

Harper collected 5 seashells. Jackson collected 3 times as many seashells as Harper. How many seashells did Jackson collect?

6) Sam ate $\frac{2}{6}$ of a pizza and Ming ate $\frac{3}{6}$ of the same pizza. How much of the pizza did they eat together?

- A. $\frac{5}{6}$
 C. $\frac{1}{6}$
 B. $\frac{5}{12}$
 D. $\frac{6}{6}$

7) A class did two separate measurements: Batch A has values $\frac{2}{8}, \frac{3}{8}, \frac{1}{8}$. Batch B has values $\frac{3}{8}, \frac{5}{8}$. What is the difference between the sum of Batch B and sum of Batch A?

- A. 0
 C. $\frac{2}{8}$
 B. $\frac{1}{8}$
 D. $\frac{3}{8}$



A trail is divided into three equal sections. First hikers cover $\frac{4}{12}$ (red) and next hikers cover $\frac{4}{12}$ (gold). How much trail is left?

- A. $\frac{8}{12}$
 C. $\frac{12}{12}$
 B. $\frac{4}{12}$
 D. $\frac{2}{12}$



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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

- The correct answer is 75.** (4.OA.A.3) Equal rows means multiply: 5 rows \times 15 plants = **75** plants.
- Choice D is correct.** (4.NBT.B.6) Follow the diagram: $26 \div 3 = 8$ r2, $28 \div 3 = 9$ r1, $18 \div 3 = 6$. Reading the quotient from the right side, we get **896**.
- Choice D is correct.** (4.G.A.3) A regular triangle means an equilateral triangle with three equal sides and angles. Three fold lines (each from a corner to the middle of the opposite side) create balance. The answer is **3** lines of symmetry.
- Choice B is correct.** (4.NF.C.5) Compare the tenths place: $9 > 3$, so $0.93 > 0.39$. The second car is more expensive.
- Choice D is correct.** (4.OA.B.4) Apply “add 12” to input 8: $8 + 12 = \mathbf{20}$.
- Choice B is correct.** (4.NF.B.4) We take 8 copies of $\frac{1}{4}$. Multiply: $8 \times \frac{1}{4} = \frac{8 \times 1}{4} = \frac{8}{4} = 2$. The answer is **2**.
- Choice C is correct.** (4.NF.B.4) Maya hops by halves: $\frac{1}{2}, \frac{2}{2}, \frac{3}{2}$. After 3 hops, she reaches $\frac{3}{2}$.
- The correct answer is 35.** (4.OA.A.1) Two steps. Step 1: the second basket has $5 \times 6 = 30$ apples. Step 2: add the first basket for the total: $5 + 30 = \mathbf{35}$ apples.
- Choice A is correct.** (4.MD.A.2) School starts at 8:45 a.m. and runs for 6 hours. Add 6 hours to 8:45 a.m. to get 2:45 p.m. School ends at **2:45** p.m.
- Choice A is correct.** (4.NF.C.5) The hundredths grid is shaded in a checkered pattern. Count the shaded squares: 25 out of 100 means $\frac{25}{100} = 0.25$.
- Choice C is correct.** (4.MD.C.5) Counting the intervals from 0 to 80 gives us **80°**.
- Choice C is correct.** (4.NF.B.4) Each jump moves us $\frac{1}{6}$ unit forward. Making 4 jumps means we move $4 \times \frac{1}{6} = \frac{4}{6}$ units total.
- Choice D is correct.** (4.NBT.A.3) We’re rounding to the nearest hundred. Look at the tens digit: 4. Since $4 < 5$, we round DOWN. The hundreds digit stays at 3, so the answer is **9,300**. ✓
- The correct answer is A, D.** (4.MD.C.7) B is wrong ($125^\circ - 50^\circ = 75^\circ$). C is wrong ($360^\circ \div 4 = 90^\circ$). E is wrong ($90^\circ - 30^\circ = 60^\circ$).
- Choice A is correct.** (4.NF.B.4) All 5 bars, each $\frac{1}{3}$ yard long, have a total length of $5 \times \frac{1}{3} = \frac{5}{3}$ yards.
- Choice D is correct.** (4.NBT.A.2) Thousands: $516 \rightarrow 516,000$. Ones: $230 \rightarrow 230$. Combined: 516,230 matches Sam’s numeral ✓
- Choice D is correct.** (4.NBT.B.5) Decompose and multiply: $33 \times (20 + 4) = 660 + 132 = \mathbf{792}$.
- The correct answer is 90.** (4.G.A.1) The corner of a square is always a right angle, and a right angle is always 90° .
- Choice C is correct.** (4.NF.B.3) Ava gave away 4 pieces out of 6 equal pieces, which is $\frac{4}{6}$. As a sum of unit fractions: $\frac{4}{6} = \underbrace{\frac{1}{6} + \frac{1}{6} + \frac{1}{6} + \frac{1}{6}}_{4 \text{ copies}}$.
- Choice C is correct.** (4.NBT.A.1) In 1,250, the digit 2 is in the hundreds place. Its value is $2 \times 100 = \mathbf{200}$. ✓
- Choice B is correct.** (4.NF.B.3) Add the wholes: $2 + 1 = 3$. Add the fractions: $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$. The total is $\mathbf{3\frac{2}{3}}$ cups.
- Choice D is correct.** (4.NF.A.1) The shaded parts in both bars cover the same length, even though the second bar has more pieces. When you divide each half into 2 more pieces, $\frac{1}{2}$ becomes $\frac{2}{4}$ —same amount, more pieces.
- Choice B is correct.** (4.G.A.2) An isosceles triangle has exactly two sides of equal length. The tick marks on two sides indicate those two sides are equal, making this an isosceles triangle. The answer is **B**.
- Choice C is correct.** (4.NF.C.5) The correct equivalence is $\frac{6}{10} = \frac{60}{100} = 0.6$. The option 0.06 is actually $\frac{6}{100}$, which is much smaller.
- Choice A is correct.** (4.NF.B.3) The circle picture shows a pie cut into 4 equal slices. Step 1: Two slices are shown: $\frac{1}{4} + \frac{1}{4} = \frac{2}{4}$. Step 2: The remaining slices: $\frac{4}{4} - \frac{2}{4} = \frac{2}{4}$.
- Choice C is correct.** (4.MD.B.4) Count how many times $\frac{2}{4}$ inch appears in the data: it shows up **3** times.
- Choice A is correct.** (4.NBT.B.4) Estimate: $49,000 + 31,000 \approx 80,000$. Then add carefully: $48,765 + 31,234 = \mathbf{79,999}$.
- Choice A is correct.** (4.MD.C.5) The angle spans between two rays in the lower portion of the circle, measuring **30°**.



Hi, Math Champion!

◇ You trained hard! 6 full practice tests is real practice. Your math game is way better now than when you started. ◇

★ **Coach's truth:** kids who practice get better. You practiced. You got better. That's how it works!
★

Your Game Stats

- **Energy:** HIGH! You can finish a long test.
- **Smart Plays:** You know lots of strategies.
- **Calm Head:** You stay cool with hard problems.
- **Game-Day Ready:** You feel strong and prepared.

Coach's tip: the night before the test, get good sleep. Eat a good breakfast. Bring a sharp pencil. Trust your training!

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

Jay Daie

Your Math Coach

PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students strengthen their math skills, master important concepts, and build confidence for test success.

With 6 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to improve accuracy, develop critical thinking, and achieve their best.

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

PERFECT FOR:

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- ✓ Confidence Building

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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.



Master Key Concepts

Reinforce important skills aligned with grade-level standards.



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 & Equivalent Fractions
- ✓ Decimals
- ✓ Geometry & Measurement
- ✓ Perimeter & Area
- ✓ Data, Graphs & Line Plots
- ✓ Patterns & Algebraic Thinking
- ✓ And More!



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