

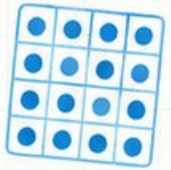
10

$$7 \times 8 = 56$$

$$\begin{array}{r} 32 \\ \times 6 \\ \hline 192 \end{array}$$



$$\frac{3}{4}$$

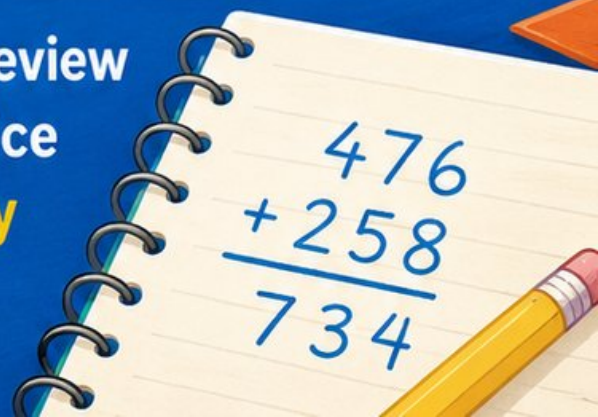


Michigan M STEP GRADE 4 MATH

PRACTICE TESTS

Standards-Aligned Review
with Mixed Practice
and **Answer Key**

$$\begin{array}{r} 476 \\ + 258 \\ \hline 734 \end{array}$$



10 Michigan M-STEP Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten 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!

Ten steady rounds on the Great Lakes math route

This book gives you ten 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?

Ten tests, 300 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 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Test 10	Final round to show growth across the whole Michigan book.
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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1) A rectangle has an area of 63 square feet. The length is 9 feet. What is the width?

A. 6 ft

C. 9 ft

B. 8 ft

D. 7 ft

2) Convert $\frac{5}{10}$ to a fraction with denominator 100.

3) One batch of a recipe uses $\frac{2}{5}$ cup of flour. If you make 3 batches, how much flour do you use?

A. $\frac{2}{15}$ cup

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

B. $\frac{6}{5}$ cups (or $1\frac{1}{5}$ cups)

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

4) A library has 8 shelves. Each shelf holds 45 books. The librarian removes 72 books to repair them. How many books are left on the shelves?

A. 360

C. 217

B. 432

D. 288

5) Jordan read 15 pages in his book. Sophia read 3 times as many pages as Jordan. How many pages did Sophia read?

A. 18

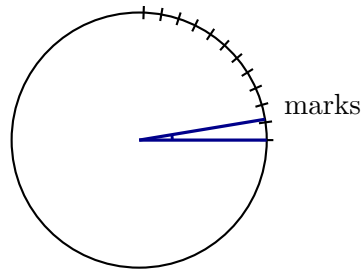
C. 60

B. 30

D. 45



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6)

Diego's angle is small and sits just past the 8° tick mark. About how many one-degree angles is it?

- A. 8 one-degree angles C. 10 one-degree angles
 B. 9 one-degree angles D. 16 one-degree angles

7) Alex has 7 pencils. Jordan has 3 times as many pencils. How many pencils does Jordan have?

- A. 10 C. 7
 B. 4 D. 21

8) A pitcher holds 64 fluid ounces. How many pints is this?

- A. 2 C. 8
 B. 4 D. 16

9) A rope is 48 inches long. If it is cut into 6 equal pieces, how long is each piece?

- A. 6 inches C. 42 inches
 B. 8 inches D. 54 inches



10) Add: $7,285 + 1,514 = ?$

- A. 8,799 C. 8,699
 B. 8,889 D. 9,799

11) Complete the equation: $7 \times \frac{1}{\underline{\quad}} = \frac{7}{9}$

- A. 7 C. 9
 B. 2 D. 16

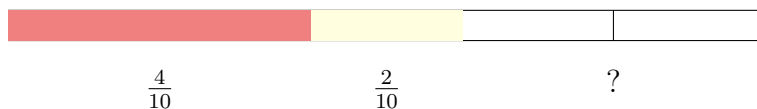
12) What is $2 \times \frac{4}{5}$?

- A. $\frac{8}{10}$ C. $\frac{4}{10}$
 B. $\frac{6}{5}$ D. $\frac{8}{5}$ or $1\frac{3}{5}$

13) Round 26,734 to the nearest hundred.

14) Express 0.23 as a fraction.

- A. $\frac{23}{10}$ C. $\frac{2}{3}$
 B. $\frac{23}{100}$ D. $\frac{23}{1000}$



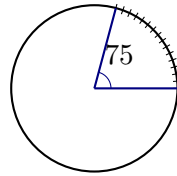
15)

A number line from 0 to 1 shows $\frac{4}{10}$ in red and $\frac{2}{10}$ in yellow. What fraction is unmarked?

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



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1)

This angle shows tick marks from 0 to 75. What is the measure of the angle?

- A. 74°
 C. 76°
 B. 75°
 D. 150°

2) Which problem has an answer of $4\frac{1}{2}$?

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

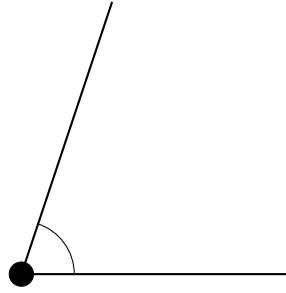
3) Which diagram shows two parallel lines?



- A. Diagram A
 C. Diagram C
 B. Diagram B
 D. Diagram D



4)



A straight angle measures 180 degrees. Is this angle more or less than 180 degrees?

- A. More than 180 degrees C. Less than 180 degrees
 B. Exactly 180 degrees D. Cannot tell from the picture

5) A pizza was cut into 12 slices. Marcus ate $\frac{3}{12}$ of the pizza and Sofia ate $\frac{4}{12}$. What fraction of the pizza remains?

- A. $\frac{7}{12}$ C. $\frac{1}{12}$
 B. $\frac{5}{12}$ D. $\frac{12}{12}$

6) What is $55,432 - 23,108$?

- A. 32,324 C. 31,324
 B. 32,234 D. 32,334

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

Start with $\frac{3}{2}$



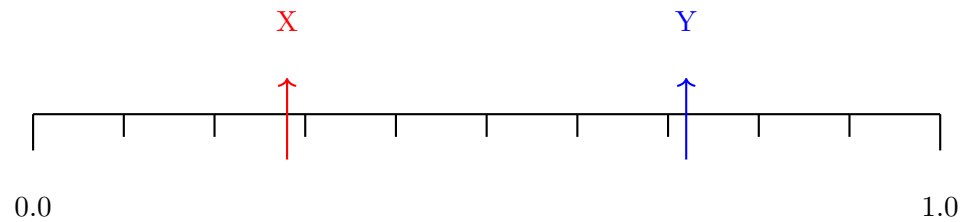
Take away $\frac{1}{2}$; ? remains

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



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1) Look at the number line below with two decimals marked.



Which statement is true?

- A. $X = 0.28$ and $Y = 0.72$; $X < Y$ C. $X = 0.82$ and $Y = 0.27$; $X < Y$
 B. $X = 0.28$ and $Y = 0.72$; $X > Y$ D. X and Y cannot be compared

2) How many degrees larger is a straight angle than a right angle?

3) Sam has \$0.25. Write this amount as a fraction of a dollar.



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4) Which of the following is the same as $5 \times \frac{1}{12}$?

A. $\frac{5}{12}$

B. $\frac{12}{5}$

C. $\frac{1}{60}$

D. $\frac{5}{1}$

5) What is $\frac{4}{10}$ as a decimal?

A. 0.04

B. 0.4

C. 4.0

D. 0.44

6) Four students measured string lengths in fourths. Leo: $\frac{1}{4}, \frac{2}{4}, \frac{3}{4}$ (sum: $\frac{6}{4}$). Sam: $\frac{2}{4}, \frac{2}{4}$ (sum: $\frac{4}{4}$). Chris: $\frac{3}{4}, \frac{3}{4}, \frac{3}{4}$ (sum: $\frac{9}{4}$). Whose total is shortest?

 A. Leo B. Sam C. Chris D. Leo and Sam are equal

7) What is $100,000 - 67,234$?

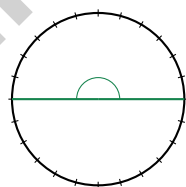
A. 32,766

B. 33,766

C. 32,666

D. 33,666

8)



A straight angle is shown with degree tick marks. How many one-degree angles form a straight angle?

 A. 90 one-degree angles B. 180 one-degree angles C. 270 one-degree angles D. 360 one-degree angles

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 D is correct.** **(4.MD.A.3)** From area: $63 = 9 \times w$. Divide: $w = 63 \div 9 = 7$ ft.
- The correct answer is $\frac{50}{100}$.** **(4.NF.C.5)** Think about place value: 1 tenth = 10 hundredths (because each tenth strip splits into 10 hundredth squares). So 5 tenths = $5 \times 10 = 50$ hundredths. Written as fractions: $\frac{5}{10} = \frac{5 \times 10}{10 \times 10} = \frac{50}{100}$. ✓
- Choice B is correct.** **(4.NF.B.4)** Making 3 batches, each using $\frac{2}{5}$ cup of flour, means we multiply: $3 \times \frac{2}{5} = \frac{6}{5}$ cups.
- Choice D is correct.** **(4.OA.A.3)** Two steps! Step 1: find the total books on the shelves. 8 shelves \times 45 books = 360 books. Step 2: take out the books being repaired. $360 - 72 = 288$ books left on the shelves.
- Choice D is correct.** **(4.OA.A.2)** “3 times as many” means multiply: $3 \times 15 = 45$. *Tip:* $3 \times 10 = 30$ and $3 \times 5 = 15$, so $30 + 15 = 45$ pages.
- Choice B is correct.** **(4.MD.C.5)** The angle goes slightly beyond the 8° tick mark, so approximately **9** one-degree angles is the best estimate.
- Choice D is correct.** **(4.OA.A.1)** “3 times as many” is a multiplication signal. Jordan has 3 groups of Alex’s 7 pencils: $7 \times 3 = 21$ pencils.
- Choice B is correct.** **(4.MD.A.1)** Since 1 pint = 16 fluid ounces, divide: $64 \div 16 = 4$ pints. The answer is **4** pints.
- Choice B is correct.** **(4.MD.A.2)** A 48-inch rope is cut into 6 equal pieces. Divide: $48 \div 6 = 8$ inches. Each piece is **8** inches long.
- Choice A is correct.** **(4.NBT.B.4)** Add by place value: ones $5 + 4 = 9$, tens $8 + 1 = 9$, hundreds $2 + 5 = 7$, thousands $7 + 1 = 8$. The sum is **8,799**.
- Choice C is correct.** **(4.NF.B.4)** The fraction $\frac{7}{9}$ has numerator 7 and denominator 9. This means 7 copies of $\frac{1}{9}$. So the missing denominator is 9.
- Choice D is correct.** **(4.NF.B.4)** We take 2 copies of $\frac{4}{5}$. Multiply: $2 \times \frac{4}{5} = \frac{2 \times 4}{5} = \frac{8}{5} = 1\frac{3}{5}$. The answer is **$1\frac{3}{5}$** .
- The correct answer is 26,700.** **(4.NBT.A.3)** We’re rounding to the nearest hundred. Look at the tens digit: 3. Since $3 < 5$, round DOWN. The answer is **26,700**. ✓
- Choice B is correct.** **(4.NF.C.5)** When you see 0.23, you’re looking at twenty-three hundredths: $0.23 = \frac{23}{100}$.
- Choice A is correct.** **(4.NF.B.3)** The number line shows marked and unmarked sections. Step 1: Add the marked fractions: $\frac{4}{10} + \frac{2}{10} = \frac{6}{10}$. Step 2: Subtract from the whole: $\frac{10}{10} - \frac{6}{10} = \frac{4}{10}$ is unmarked.
- The correct answer is 546.** **(4.NBT.B.6)** Long division: $4 \div 8 = 0$ r4, bring down the 3 to get $43 \div 8 = 5$ r3, bring down the 6 to get $36 \div 8 = 4$ r4, bring down the 8 to get $48 \div 8 = 6$. The quotient is **546**. *Quick check:* $546 \times 8 = 4,368$. ✓
- The correct answer is A, D.** **(4.NF.A.1)** Simplify $\frac{2}{4}$: divide both by 2 to get $\frac{1}{2}$ (option A) ✓ Also, $\frac{2}{4} = \frac{2 \times 2}{4 \times 2} = \frac{4}{8}$ (option D) ✓ The other options (B, C, E) are not equivalent—they don’t equal $\frac{1}{2}$.
- Choice B is correct.** **(4.G.A.3)** The letter *T* has a horizontal bar across the top and a vertical stem down the middle. The vertical dashed line splits it perfectly so the left and right halves match. The answer is Yes, this is a line of symmetry.
- Choice C is correct.** **(4.NBT.A.1)** Step 1: name the values. The 8 in thousands is worth 8,000; the 8 in tens is worth 80. Step 2: divide to compare: $8,000 \div 80 = 100$. The thousands 8 is **100** times greater than the tens 8. *Why 100?* Two places to the left = two factors of 10, and $10 \times 10 = 100$. ✓
- Choice C is correct.** **(4.MD.C.5)** The angle spans from 0° (rightward) to 135° , measuring 135° .
- Choice A is correct.** **(4.NF.C.5)** Compare the tenths place first: $3 > 2$, so $0.32 > 0.23$. The tenths place matters most!
- Choice C is correct.** **(4.MD.C.5)** An obtuse angle opens wider than a right angle but is not a straight line.
- Choice C is correct.** **(4.OA.B.4)** Count stars: Figure 1 has 1, Figure 2 has 3, Figure 3 has 6. The increases are +2, then +3. Following the pattern, the next increase is +4: $6 + 4 = 10$ stars.
- Choice A is correct.** **(4.NBT.A.2)** Choice A matches all three forms: standard 142,805, word form “one hundred forty-two thousand, eight hundred five”, and expansion $100,000 + 40,000 + 2,000 + 800 + 5$ ✓
- Choice A is correct.** **(4.NF.B.3)** One whole ($\frac{4}{4}$) as unit fractions means four pieces of $\frac{1}{4}$: $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{4}{4}$ ✓.
- Choice A is correct.** **(4.NF.B.3)** Multiply the whole by the denominator: $4 \times 3 = 12$. Add the numerator: $12 + 2 = 14$. The result is $\frac{14}{3}$.



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Notes From the Math Gardener

Hi, Math Gardener!

◇ Look at how much you grew! 10 tests is like 10 weeks of taking care of your math garden. Every problem was a seed. Every try was water. ◇

★ **Gardeners say:** growth takes time. You can't see roots, but they are there. You can't always feel smarter, but you are. Your math garden is full! ★

Garden Check-Up

- **Roots:** STRONG! Your basic math is solid.
- **Stems:** STURDY! You can do step-by-step problems.
- **Leaves:** GREEN! You have lots of math tools.
- **Flowers:** BRIGHT! You feel proud of your work.

Gardener tip: keep watering your math garden long after the test. Every habit you built will grow with you for years!

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

Jay Daie

Your Math Gardener

PRACTICE TODAY. ACHIEVE TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, boost confidence, and succeed in the classroom and beyond. With 10 full-length practice tests that reflect real test formats, students get the targeted practice they need to master key concepts, improve problem-solving abilities, and achieve their goals.

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