

3

Michigan

M STEP

GRADE 4

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



5 FULL-LENGTH
PRACTICE TESTS



STANDARDS-ALIGNED
REVIEW



MIXED PRACTICE
QUESTIONS



ANSWER KEY
INCLUDED

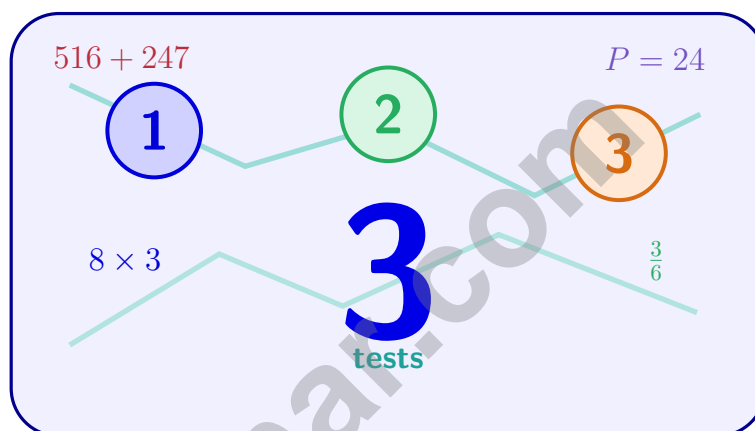
$$a^2 + b^2 = c^2$$

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



3 Michigan M-STEP Grade 4 Math Practice Tests

Standards-Aligned Practice for Stronger Math Skills and Test Readiness



Three 30-question trail tests packed with Grade 4 review, Michigan M-STEP strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

Jay Daie and Reza Nazari



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Welcome, Michigan Math Explorer!

Three steady rounds on the Great Lakes math route

This book gives you three full Grade 3 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?

Three tests, 90 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 1–3	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 1–3	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.

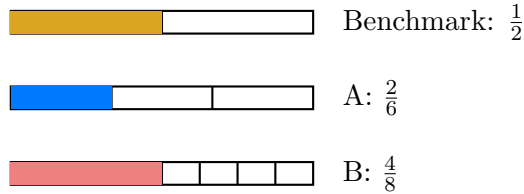


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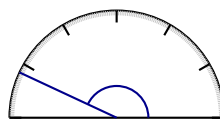
★ Practice Test 1	_____	15
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1) Which fraction is equivalent to $\frac{1}{2}$?



- A. $\frac{2}{6}$ is equivalent to $\frac{1}{2}$
 - B. $\frac{4}{8}$ is equivalent to $\frac{1}{2}$
 - C. Both fractions are equivalent to $\frac{1}{2}$
 - D. Neither fraction is equivalent to $\frac{1}{2}$
- 2) Maya measured her jump rope. It was 0.65 meters. Sam’s rope was 0.56 meters. Whose rope was longer?
- A. Maya’s rope (0.65 m)
 - B. Sam’s rope (0.56 m)
 - C. Both ropes are the same length
 - D. Cannot tell from the information
- 3) A toy donation has 35 toy cars and 28 toy trucks. They lose 6 items. The remaining items are donated to 3 shelters equally. How many items does each shelter receive?
- A. 18 items
 - B. 21 items
 - C. 20 items
 - D. 19 items

4)

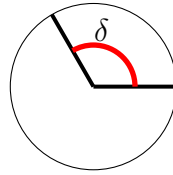


What is the measure of this angle?

- A. 145 degrees
- B. 150 degrees
- C. 155 degrees
- D. 165 degrees



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5)

What is the measure of angle δ in the diagram?

- A. 90°
 C. 150°
 B. 120°
 D. 180°

6) Write $\frac{5}{10}$ as an equivalent fraction with denominator 100.

- A. $\frac{5}{100}$
 C. $\frac{500}{100}$
 B. $\frac{50}{100}$
 D. $\frac{50}{10}$

7) What is $3\frac{3}{4} - 1\frac{2}{4} - \frac{3}{4}$?

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

8) Look at the bar models. What is the relationship?

Bar A: 3 units



Bar B: 12 units

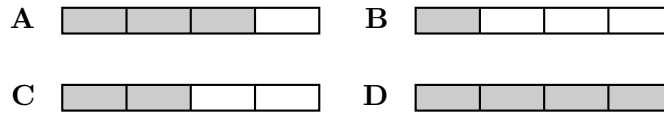
- A. Bar A is 2 times Bar B
 C. Bar A and Bar B are the same
 B. Bar B is 3 times Bar A
 D. Bar B is 4 times Bar A



9) Round 56,841 to the nearest thousand.

- A. 56,000 C. 56,800
 B. 60,000 D. 57,000

10) Which picture shows $3 \times \frac{1}{4}$?



- A. Picture A C. Picture C
 B. Picture B D. Picture D

11) How many lines of symmetry does a non-square rectangle have?



12) Which number is less?

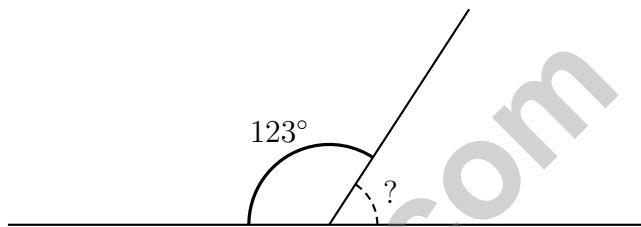
	Thousands	Hundreds	Tens	Ones
Number A	7	2	6	4
Number B	7	2	6	5

- A. They are equal C. 7,264
 B. Cannot determine D. 7,265



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- 1) A school buys 4 cases of pencils. Each case has 50 pencils. They distribute equally to 25 classrooms. How many pencils does each classroom get?
- A. 10 pencils C. 15 pencils
 B. 12 pencils D. 8 pencils
- 2) A straight line is marked at a point. On one side of the point, an angle measures 123° . What is the measure of the angle on the other side of the point?



- A. 123° C. 180°
 B. 57° D. 90°
- 3) A digit has a value of 7,000. What is the place value of this digit?
- A. Hundreds C. Tens
 B. Ones D. Thousands
- 4) Which addition is correct?
- A. $5,234 + 3,456 = 8,690$ C. $5,234 + 3,456 = 8,780$
 B. $5,234 + 3,456 = 8,590$ D. $5,234 + 3,456 = 9,690$



5) Ming has a ribbon that is $\frac{5}{8}$ meter long. She cuts off $\frac{3}{8}$ meter. How much ribbon remains?

A. $\frac{2}{8}$ meter

B. $\frac{8}{16}$ meter

C. $\frac{3}{8}$ meter

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

6) Write the number 12,405 in word form.

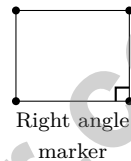
A. Twelve thousand, four hundred fifty

B. Twelve thousand, forty-five

C. One hundred twenty thousand, four hundred five

D. Twelve thousand, four hundred five

7) Which shape has perpendicular sides?



A. Obtuse triangle

B. Rectangle

C. Acute triangle

D. Trapezoid

8) A regular hexagon (6-sided polygon) has how many lines of symmetry?

A. 3

B. 4

C. 6

D. 8



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- 1) Diego simplified $\frac{4}{8}$ and wrote $\frac{2}{4}$. His teacher said he is correct because the fractions are equivalent. Is the teacher right?
- A. Yes, the teacher is right; $\frac{2}{4}$ is in simplest form
- B. No, the teacher is wrong; $\frac{4}{8} \neq \frac{2}{4}$
- C. Yes, and both simplify further to $\frac{1}{2}$
- D. No, Diego should have written $\frac{1}{4}$
- 2) Two rays form an angle of 127° . One ray is rotated to create a smaller angle of 39° with the other ray. What is the angle that was swept during the rotation?
- A. 88°
- B. 166°
- C. 39°
- D. 90°
- 3) Noah has 36 coins. He sorts them into 3 equal groups and keeps one group. Then he spends 5 coins. How many coins does Noah have left?
- A. 16
- B. 12
- C. 7
- D. 31
- 4) Which decimal is between 0.3 and 0.4?
- A. 0.25
- B. 0.35
- C. 0.45
- D. 0.05
- 5) Which decomposition of $\frac{9}{10}$ is correct?
- A. $\frac{4}{10} + \frac{5}{10}$
- B. $\frac{3}{10} + \frac{5}{10}$
- C. $\frac{2}{10} + \frac{8}{10}$
- D. $\frac{5}{10} + \frac{5}{10}$



- 6) Ming has 5 bags of marbles. Each bag has $\frac{3}{10}$ pound of marbles. What is the total weight?
- A. $\frac{5}{30}$ pounds C. $\frac{3}{50}$ pounds
 B. $\frac{15}{10}$ or $1\frac{1}{2}$ pounds D. $\frac{8}{10}$ pounds
- 7) A baker divides 540 cookies equally among 6 friends. How many cookies does each friend receive?
- A. 80 C. 90
 B. 95 D. 85
- 8) A delivery truck carries 25 boxes. Each box weighs 8 pounds. What is the total weight in ounces?
- A. 200 ounces C. 3,200 ounces
 B. 800 ounces D. 6,400 ounces
- 9) Which description matches a right angle?
- A. Smallest opening of all angles C. Largest opening before becoming a straight line
 B. Square corner, like the corner of a book D. Opens wider than an acute angle
- 10) Diego has $\frac{5}{10}$ of a granola bar. How many tenths does he have?
- A. 5 tenths C. 2 tenths
 B. 10 tenths D. 15 tenths



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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

- Choice B is correct.** **(4.NF.A.1)** Compare the shading to the benchmark. Option B shades the same amount as the benchmark ($\frac{1}{2}$): $\frac{4}{8} = \frac{1}{2}$. Option A ($\frac{2}{6}$) shades much less.
- Choice A is correct.** **(4.NF.C.5)** Look at the tenths place: 0.65 has 6 tenths while 0.56 has 5 tenths. Since $6 > 5$, $0.65 > 0.56$, and Maya's rope is longer.
- Choice D is correct.** **(4.OA.A.3)** Three steps! Step 1: total items: $35 + 28 = 63$. Step 2: subtract the lost items: $63 - 6 = 57$. Step 3: share among 3 shelters: $57 \div 3 = 19$ items each.
- Choice C is correct.** **(4.MD.C.6)** The ray points to the 155° mark, which is very close to the 180° straight angle. Since 155° is between 90° and 180° , it's obtuse. The answer is **155** degrees.
- Choice B is correct.** **(4.MD.C.5)** The diagram shows an angle spanning from the right to an upper-left ray. The measure is **120°** .
- Choice B is correct.** **(4.NF.C.5)** Multiply both the numerator and denominator by 10: $\frac{5}{10} \times \frac{10}{10} = \frac{50}{100}$.
- Choice B is correct.** **(4.NF.B.3)** Start with whole parts: $3 - 1 = 2$. For fractions: $\frac{3}{4} - \frac{2}{4} - \frac{3}{4} = \frac{3}{4} - \frac{5}{4}$. Since the fractions are being subtracted from a whole (this becomes 2 wholes minus fractions), regroup: $2\frac{3}{4} = 1\frac{7}{4}$, then $1\frac{7}{4} - \frac{5}{4} = 1\frac{2}{4}$.
- Choice D is correct.** **(4.OA.A.1)** Compare the bars by dividing the longer by the shorter: $12 \div 3 = 4$. So Bar B is 4 times as long as Bar A.
- Choice D is correct.** **(4.NBT.A.3)** We're rounding to the nearest thousand. Look at the hundreds digit: 8. Since $8 \geq 5$, we round UP! The thousands digit changes from 6 to 7, so the answer is **57,000**. ✓
- Choice A is correct.** **(4.NF.B.4)** For $3 \times \frac{1}{4}$, we need 3 copies of $\frac{1}{4}$, which equals $\frac{3}{4}$. Picture A shows one whole divided into 4 parts with 3 parts shaded. This is Picture A.
- The correct answer is 2.** **(4.G.A.3)** A rectangle that's not square is longer in one direction. It balances perfectly along a vertical line through the middle and a horizontal line through the middle. The answer is **2**.
- Choice C is correct.** **(4.NBT.A.2)** All digits match except the ones place. A has 4 ones, B has 5 ones. Since $4 < 5$, 7,264 is less ✓
- Choice B is correct.** **(4.NF.B.3)** $\frac{4}{10}$ means 4 pieces out of 10, and each piece is $\frac{1}{10}$. So $\frac{4}{10} = \frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10}$.
- The correct answer is 360.** **(4.NBT.B.6)** Divide: $21 \div 6 = 3$ r3, bring down the 6 to get $36 \div 6 = 6$, bring down the 0 to get $0 \div 6 = 0$. The farm fills **360** cartons of eggs.
- Choice A is correct.** **(4.MD.A.1)** Since 1 cup = 8 fluid ounces, divide: $120 \div 8 = 15$ cups. The answer is **15** cups.
- The correct answer is A, C.** **(4.NBT.B.4)** A: $5,234 + 2,345 = 7,579$ ✓. B: $6,789 + 2,456 = 9,245$ (wrong). C: $8,123 + 1,234 = 9,357$ ✓. D: $9,000 + 3,456 = 12,456$ (wrong). E: $4,567 + 3,456 = 8,023$ (wrong). Correct answers: A and C.
- Choice B is correct.** **(4.MD.A.3)** From $54 = \ell \times 6$: Divide to get $\ell = 54 \div 6 = 9$ ft.
- Choice C is correct.** **(4.NF.B.4)** Three tiles of $\frac{2}{3}$ each: $3 \times \frac{2}{3} = \frac{6}{3}$.
- Choice D is correct.** **(4.OA.B.4)** We need a number that pairs with 2 to make 20. Ask yourself: $2 \times ? = 20$. Since $2 \times 10 = 20$, the missing factor is **10**.
- Choice A is correct.** **(4.MD.C.7)** The angle is split into two parts. Subtract to find the missing part: $175^\circ - 96^\circ = \mathbf{79^\circ}$.
- Choice A is correct.** **(4.NF.B.4)** The bar shows that one ribbon is $\frac{3}{4}$ yard. With 2 ribbons like this, we get $2 \times \frac{3}{4} = \frac{6}{4} = 1\frac{2}{4}$ yards.
- Choice A is correct.** **(4.NF.B.3)** Mia's string is $\frac{11}{12}$ long. One piece is $\frac{6}{12}$, so the other must be $\frac{11}{12} - \frac{6}{12} = \frac{5}{12}$. Check: $6 + 5 = 11$ ✓.
- Choice B is correct.** **(4.NF.A.1)** Use $\frac{1}{2}$ as a benchmark: $\frac{3}{10} < \frac{1}{2}$ (only 3 out of 10 parts) but $\frac{4}{5} > \frac{1}{2}$ (four fifths is more than half). The benchmark separates them!
- Choice A is correct.** **(4.G.A.2)** A square has two essential properties: four sides of equal length and four right angles at each corner. This combination of properties is unique to squares. The answer is **A**.
- Choice C is correct.** **(4.MD.A.2)** Chen rides 18 kilometers on Saturday and 25 kilometers on Sunday. Add: $18 + 25 = 43$ km. His total distance is **43** kilometers.



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Hi, Math Athlete!

◇ 3 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

PRACTICE TODAY. SUCCEED TOMORROW!

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

With 3 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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WHAT STUDENTS WILL GAIN



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Better Problem Solving

Develop logical thinking and effective solution strategies.



Test Confidence

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Prepare for Success

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

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- ✓ Addition & Subtraction
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