

6 Ohio OST

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 Ohio OST Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Six complete 30-question Grade 4 practice rounds for OST, built around river bends, lake breezes, and strong test-day routines, with answer keys and clear explanations for every item.

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Welcome, Ohio Math Explorer!

Six steady rounds on the Buckeye State math route

This book gives you six full Grade 4 practice tests for OST. Each round uses river bends, lake breezes, and strong test-day routines to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Ohio 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 Ohio OST 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 Buckeye State 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 OST 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	_____	26
★ Practice Test 3	_____	37
★ Practice Test 4	_____	49
★ Practice Test 5	_____	60
★ Practice Test 6	_____	72
Practice Test Answer Keys	_____	82
Practice Test Answers and Explanations	_____	86

1) Look at the base-ten model below. What number does it represent?



- A. 6,142 C. 1,462
 B. 4,612 D. 4,162
- 2) How many lines of symmetry does a regular triangle have?
- A. 0 C. 2
 B. 1 D. 3
- 3) What is 78,234 rounded to the nearest hundred?
- A. 78,000 C. 78,230
 B. 78,300 D. 78,200
- 4) Which decimal is the same as $\frac{40}{100}$?
- A. 0.04 C. 0.004
 B. 0.40 D. 4.0
- 5) A container of juice has $\frac{9}{10}$ liter. After serving some drinks, $\frac{4}{10}$ liter is left. How much juice was served?
- A. $\frac{5}{10}$ C. $\frac{4}{10}$
 B. $\frac{13}{10}$ D. $\frac{1}{10}$



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6) Mia has 7 cups. Each cup holds 8 marbles. She loses 15 marbles. How many marbles does she have left?

A. 56

C. 71

B. 49

D. 41

7) A rectangle has a width of 8 meters. The perimeter is 36 meters. What is the length?

A. 12 m

C. 18 m

B. 14 m

D. 10 m

8) Which fraction is equivalent to $\frac{2}{3}$ and has a denominator of 12?

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

C. $\frac{9}{12}$

B. $\frac{10}{12}$

D. $\frac{8}{12}$

9) Complete the table using the rule “multiply by 3”:

Input	1	2	3	4	5
Output	3	6	9	?	?

10) Write $2 \times \frac{1}{3}$ as a fraction.

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

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

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

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



11) 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°

12) Which is true?

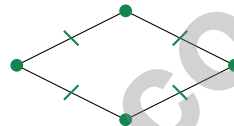
A. $\frac{8}{10} > \frac{90}{100}$

B. $\frac{8}{10} = \frac{80}{100}$

C. $\frac{8}{10} < \frac{50}{100}$

D. $\frac{8}{10} = \frac{8}{100}$

13) Look at the shape shown. It is a quadrilateral with four equal sides but no right angles. What is it?



All sides equal

 A. Rectangle B. Square C. Rhombus D. Trapezoid

14) Select the TWO correct answers. Which fractions can be written as the sum

$$\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}?$$

A. $\frac{5}{8}$

B. $\frac{8}{5}$

 C. Five unit fractions of eighths

D. $\frac{1}{40}$

E. $\frac{5}{10}$



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1) Which fraction equals $6 \times \frac{1}{8}$?

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

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

C. $\frac{6}{48}$

D. $\frac{1}{48}$

2) Add: $3,456 + 4,567 = ?$

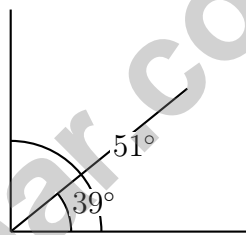
A. 8,012

B. 7,913

C. 7,923

D. 8,023

3) Two pieces of ribbon are arranged at a vertex. The first ribbon makes an angle of 39° and the second makes an angle of 51° . Together, what angle do the ribbons form?



A. 90°

B. 51°

C. 39°

D. 130°

4) A school has 156 students going on a field trip. Each bus holds 24 students. How many buses do they need to rent to fit all students?

A. 6 buses

B. 8 buses

C. 5 buses

D. 7 buses



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& answers

- 1) How many square tiles fit in a grid that is 26 units long and 12 units wide?
- A. 200 C. 262
 B. 352 D. 312
- 2) A baker made 36 muffins. This is 9 times as many as yesterday. How many muffins did the baker make yesterday?
- A. 45 C. 324
 B. 27 D. 4
- 3) Jasmine has a ribbon that is $3\frac{2}{4}$ feet long. She cuts off $1\frac{1}{4}$ feet. What is the length of the remaining ribbon?
- A. $2\frac{1}{4}$ C. $4\frac{3}{4}$
 B. $1\frac{1}{4}$ D. $2\frac{3}{4}$
- 4) If you have $300,000 + 20,000 + 5,000 + 600 + 30 + 2$, what is the numeral?
- A. 320,632 C. 352,632
 B. 305,632 D. 325,632
- 5) A growing pyramid pattern is shown:



Figure 1



Figure 2



Figure 3

How many circles are in Figure 5?

- A. 10 C. 15
 B. 12 D. 18



6) $\frac{4}{5}$ is equivalent to $\frac{?}{20}$. What is the missing numerator?

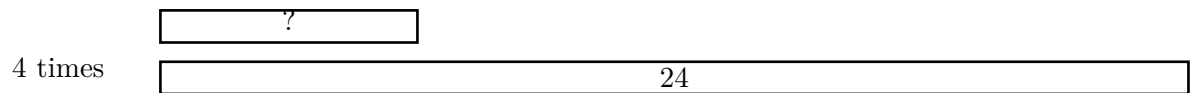
A. 12

C. 18

B. 24

D. 16

7)



A fruit stand has 24 apples. The number of apples is 4 times the number of oranges. How many oranges are there?

A. 4

C. 8

B. 12

D. 6

8) Which number is divisible by 3?

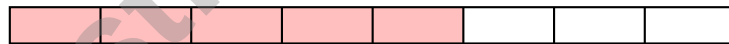
A. 37

C. 57

B. 44

D. 62

9) Kai has $\frac{5}{8}$ of a chocolate bar. She gives $\frac{2}{8}$ to her friend. How much does she have left?



Kai has $\frac{5}{8}$
 $\frac{5}{8} - \frac{2}{8} = ?$

Gives $\frac{2}{8}$ away

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

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

B. $\frac{3}{8}$

D. $\frac{2}{8}$



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For more practice
& answers

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.NBT.1) Count the blocks: 4 thousands, 1 hundreds, 6 tens, 2 ones. Add them: $4,000 + 100 + 60 + 2 = 4,162$. ✓
- Choice D is correct.** (4.G.1) 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 D is correct.** (4.NBT.3) We're rounding to the nearest hundred. Look at the tens digit: 3. Since $3 < 5$, we round DOWN. The hundreds digit stays at 2, giving us **78,200**. ✓
- Choice B is correct.** (4.NF.5) Forty hundredths can be written as 0.40 or 0.4. Either way, they're the same value.
- Choice A is correct.** (4.NF.3) The container started full and some juice was served. Find how much was served by subtracting what's left from what started: $\frac{9}{10} - \frac{4}{10} = \frac{5}{10}$ liter of juice was served.
- Choice D is correct.** (4.OA.3) Two steps! Step 1: find the total marbles. 7 cups \times 8 marbles = 56. Step 2: take away the lost marbles: $56 - 15 = 41$ marbles left.
- Choice D is correct.** (4.MD.3) Use $P = 2\ell + 2w = 36$ with $w = 8$: $2\ell + 2(8) = 36$. Solve: $2\ell + 16 = 36$, so $2\ell = 20$, thus $\ell = 10$ m.
- Choice D is correct.** (4.NF.1) To get a denominator of 12 from 3, multiply by 4. Multiply both top and bottom by 4: $\frac{2}{3} = \frac{2 \times 4}{3 \times 4} = \frac{8}{12}$.
- The correct answer is 12, 15.** (4.OA.4) Multiply by 3: Input 4 gives $4 \times 3 = 12$; Input 5 gives $5 \times 3 = 15$. The outputs are **12, 15**.
- Choice B is correct.** (4.NF.4) To write $2 \times \frac{1}{3}$ as a fraction, count the copies: we have 2 copies of $\frac{1}{3}$. So the fraction is $\frac{2}{3}$.
- Choice A is correct.** (4.MD.7) To find the missing part, subtract what you know from the whole angle: $150^\circ - 85^\circ = 65^\circ$.
- Choice B is correct.** (4.NF.5) We can convert $\frac{8}{10}$ to a fraction with denominator 100 by multiplying both parts by 10: $\frac{8}{10} = \frac{80}{100}$.
- Choice C is correct.** (4.G.2) A rhombus has four equal sides and two pairs of parallel sides, but does not require right angles. The figure shows equal sides marked on all four sides with no right angles, which defines a rhombus. The answer is **C**.
- The correct answer is A, C.** (4.NF.3) Count the unit fractions: five $\frac{1}{8}$'s equal $\frac{5}{8}$ (choice A). Choice C also correctly describes this as "five unit fractions of eighths." Choice B reverses numerator and denominator. Choices D and E use wrong denominators.
- The correct answer is 2,000.** (4.MD.1) Since 1 liter = 1,000 milliliters, multiply: $2 \times 1,000 = 2,000$ mL.
- Choice A is correct.** (4.MD.6) The ray lines up exactly with the 80° mark. Since 80° is between the 75° and 85° range and less than 90° , it's acute. The answer is **80** degrees.
- Choice B is correct.** (4.NF.1) Find common denominators: $\frac{3}{4} = \frac{15}{20}$ and $\frac{4}{5} = \frac{16}{20}$. Since $\frac{16}{20} > \frac{15}{20}$, the second jar is more full.
- Choice C is correct.** (4.NF.4) We take 5 copies of $\frac{2}{10}$. Multiply: $5 \times \frac{2}{10} = \frac{5 \times 2}{10} = \frac{10}{10} = 1$. The answer is **1**.
- Choice A is correct.** (4.NF.4) The number line shows 4 equal jumps of $\frac{1}{4}$ each, landing at 1. This shows the multiplication $4 \times \frac{1}{4} = 1$.
- Choice D is correct.** (4.NBT.2) Breaking it: 73 thousands ("seventy-three thousand") and 546 ones ("five hundred forty-six") ✓
- Choice D is correct.** (4.OA.1) Divide the larger group by the smaller: $15 \div 5 = 3$. So Group 2 has **3** times as many counters as Group 1.
- Choice A is correct.** (4.NBT.4) Add: $2,345 + 7,654 = 9,999$. The digits complement each other perfectly!
- Choice C is correct.** (4.NF.4) Multiples of $\frac{1}{6}$ count by sixths. That gives us $\frac{1}{6}, \frac{2}{6}, \frac{3}{6}, \frac{4}{6}, \frac{5}{6}, \frac{6}{6}, \dots$. But $\frac{2}{5}$ doesn't fit this pattern, so it's not a multiple.
- Choice B is correct.** (4.MD.2c) The tank holds 200 liters total. There are already 84 liters inside. Subtract: $200 - 84 = 116$ liters. **116** liters can still fit.



Trail Guide's Final Note

Hi, Brave Trail-Walker!

◇ You walked all 6 miles of the practice trail. Smooth paths, steep climbs, narrow passes. Every step taught you something. ◇

★ **Trail guides know:** the most important thing is to keep moving. Slow steps still get you there. You have a steady stride now. ★

Trail Survey

- **Route Knowledge:** You know lots of problem types.
- **Steady Pace:** You don't rush. You don't stop.
- **Pack Loaded:** You have all the math tools you need.
- **Confidence:** You trust your training.

Guide's tip: on test day, stay on the trail you've walked before. Use the strategies you've practiced. Trust the route. The summit is one steady walk away!

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

Jay Daie

Your Math Trail Guide

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:

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

★ **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.



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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