

9

$$256 \div 8 = 32$$



$$48 \times 7 = 336$$

Ohio OST

GRADE 4

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



**9 FULL-LENGTH
PRACTICE TESTS**



**STANDARDS-ALIGNED
REVIEW**



**MIXED PRACTICE
BUILD SKILLS & CONFIDENCE**



**ANSWER KEY
FOR ALL TESTS**



$$\frac{3}{4} + \frac{1}{4} = 1$$



$$725 - 358 = 367$$

PREPARE
PRACTICE
SUCCEED
PERFORM

**PRACTICE TODAY.
SUCCEED TOMORROW.**

9 Ohio OST Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine 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.

Jay Daie and Reza Nazari



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Welcome, Ohio Math Explorer!

Nine steady rounds on the Buckeye State math route

This book gives you nine 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?

Nine tests, 270 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 7–9	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.

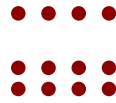


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Alex



Claire

1)

Alex has 4 marbles. Claire has 2 times as many marbles as Alex. How many marbles does Claire have?

 A. 6 C. 10 B. 12 D. 8

2) Mia had 25,000 dollars. She spent 12,345 dollars. How much money does she have left?

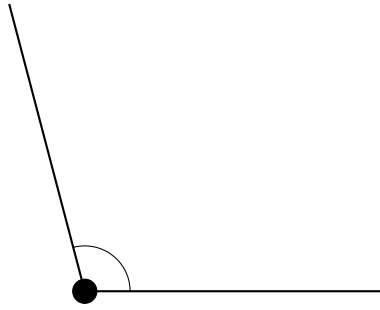
 A. 12,655 dollars C. 13,655 dollars B. 12,755 dollars D. 12,565 dollars

3) How many tenths equal $\frac{20}{100}$?

 A. 2 tenths C. 200 tenths B. 20 tenths D. 0.2 tenths

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4)



Which statement about this angle is correct?

- A. It is less than a right angle
- B. It is a right angle
- C. It is more than a right angle but less than straight
- D. It is a straight angle

5) The letter *M* has how many lines of symmetry?

- A. 0
- B. 1
- C. 2
- D. 3

6) Which of the following is a prime number?

- A. 9
- B. 15
- C. 17
- D. 21

7) Which number sentence is true?

- A. $\frac{3}{4} = \frac{9}{12}$
- B. $\frac{2}{5} = \frac{4}{12}$
- C. $\frac{1}{4} = \frac{2}{12}$
- D. $\frac{5}{6} = \frac{10}{11}$



8) Two friends share pizza. One eats $\frac{3}{8}$ and the other eats $\frac{4}{8}$. How much pizza do they eat together?

A. $\frac{7}{16}$ of the pizza

B. $\frac{7}{8}$ of the pizza

C. $\frac{1}{8}$ of the pizza

D. $1\frac{1}{8}$ pizzas

9) Which number is less than 54,200?

A. 54,300

B. 54,200

C. 55,200

D. 54,100

10) A line plot with eighths shows data at: $\frac{2}{8}$ (2 X marks), $\frac{4}{8}$ (3 X marks), $\frac{6}{8}$ (1 X mark). What is the range of this data?

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

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

C. $\frac{4}{8}$

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

11) Mia has 0.4 of a pizza. How can she write this as a fraction with denominator 10?

A. $\frac{4}{100}$

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

C. $\frac{40}{100}$

D. $\frac{4}{1000}$

12) Find $8 \times \frac{2}{3}$ as a mixed number.



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1) What is $9,000 - 4,256$?

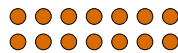
A. 4,744

C. 4,244

B. 5,244

D. 5,744

Paige



Quinn

2)

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

3) What number is $100,000 + 20,000 + 3,000 + 0 + 50 + 0$?

A. 123,500

C. 123,050

B. 102,350

D. 120,350

4) Which quotient and remainder is correct for $849 \div 9$?

A. 93 r6

C. 95 r4

B. 96 r1

D. 94 r3



1) Noah's class collected 455 books. They want to donate them equally to 5 libraries. How many books go to each library?

A. 81

C. 97

B. 85

D. 91

2) 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. $\frac{12}{12}$

3) Look at the line plot of ribbon lengths in fourths of an inch. Which length has the most X marks?



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

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

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

D. 1 inch

4) What is 98,765 rounded to the nearest thousand?

A. 98,000

C. 98,800

B. 100,000

D. 99,000



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5) What is $34,567 + 12,321$?

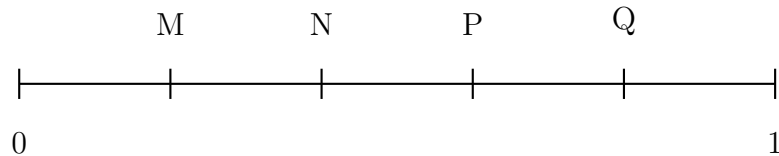
A. 46,888

C. 47,888

B. 46,788

D. 46,978

6) Which letter shows the location of 0.8 on the number line?



A. At M

C. At P

B. At N

D. At Q

7) Which statement matches $32 = 8 \times 4$?

A. 32 is 4 less than 8

C. 32 is 8 more than 4

B. 32 is 4 more than 8

D. 32 is 8 times as many as 4

8) A school cafeteria prepares 24 trays of food. Each tray serves 12 people. How many people can be served?

9) A pie chart shows sections with angles of 90° , 80° , 60° , and 50° . What is the total angle measure of these four sections?

A. 180°

C. 280°

B. 230°

D. 360°



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.OA.2) Claire's group has 2 rows of 4 marbles—that's "2 times as many." Multiply: $2 \times 4 = 8$ marbles.
- Choice A is correct.** (4.NBT.4) Mia spent money, so we subtract. $25,000 - 12,345 = 12,655$ dollars left.
- Choice A is correct.** (4.NF.5) When we simplify, $\frac{20}{100} = \frac{2}{10}$, which equals 2 tenths.
- Choice C is correct.** (4.MD.5) This angle opens wider than a right angle (90 degrees) but does not form a straight line (180 degrees), making it obtuse.
- Choice B is correct.** (4.G.1) The letter *M* has two humps (peaks) that are exactly the same height and shape. A vertical line down the middle divides it into matching left and right halves. The answer is **1** line of symmetry.
- Choice C is correct.** (4.OA.4) A *prime* number has exactly two factors: 1 and itself. Try dividing 17: it doesn't divide evenly by 2, 3, 4, or 5, so its only factors are 1 and 17—prime! The others are *composite*: $9 = 3 \times 3$; $15 = 3 \times 5$; $21 = 3 \times 7$.
- Choice A is correct.** (4.NF.1) Check option A: $\frac{3}{4} = \frac{3 \times 3}{4 \times 3} = \frac{9}{12}$ ✓ True! The others fail: B gives $\frac{2}{5} = \frac{8}{20}$ (not $\frac{4}{12}$), C gives $\frac{1}{4} = \frac{3}{12}$ (not $\frac{2}{12}$), and D is clearly false.
- Choice B is correct.** (4.NF.3) One friend eats $\frac{3}{8}$, the other eats $\frac{4}{8}$. Together, that's $3 + 4 = 7$ eighths: $\frac{7}{8}$ of the pizza.
- Choice D is correct.** (4.NBT.2) The thousands digits match, so compare the hundreds place: $100 < 200$, therefore $54,100 < 54,200$ ✓
- Choice C is correct.** (4.MD.4) The smallest measurement is $\frac{2}{8}$ and the largest is $\frac{6}{8}$. The range is $\frac{6}{8} - \frac{2}{8} = \frac{4}{8}$.
- Choice B is correct.** (4.NF.5) 0.4 is zero point four, which is four tenths: $0.4 = \frac{4}{10}$. That's the answer Mia is looking for.
- The correct answer is $5\frac{1}{3}$.** (4.NF.4) We take 8 copies of $\frac{2}{3}$. Multiply: $8 \times \frac{2}{3} = \frac{8 \times 2}{3} = \frac{16}{3} = 5\frac{1}{3}$. The answer is $5\frac{1}{3}$.
- Choice D is correct.** (4.NBT.5) Decompose and multiply: $33 \times (20 + 4) = 660 + 132 = 792$.
- Choice D is correct.** (4.OA.3) Three steps! Step 1: Ava's total: $8 \times 12 = 96$ pages. Step 2: Noah's total: $10 \times 9 = 90$ pages. Step 3: "how many more" is a subtraction: $96 - 90 = 6$ pages.
- Choice C is correct.** (4.MD.2c) One bottle has 2 liters. The second has $1\frac{1}{2}$ liters. Add: $2 + 1\frac{1}{2} = 3\frac{1}{2}$ liters. Together they have $3\frac{1}{2}$ liters.
- The correct answer is $\frac{6}{4}$.** (4.NF.4) With 6 tiles, each $\frac{1}{4}$ meter long, we have $6 \times \frac{1}{4} = \frac{6}{4} = 1\frac{1}{2}$ meters total.
- The correct answer is A, E.** (4.MD.6) Statements A and E are both correct definitions of angle types. B is incorrect because protractors measure angles, not length in centimeters. C is incorrect because a straight angle measures 180 degrees, not 90 degrees. D is incorrect because the vertex must be placed at the center point of the protractor, not at the curved edge.
- Choice B is correct.** (4.NF.3) The container starts with water shown in the picture. When some water is removed, subtract: $\frac{3}{5} - \frac{1}{5} = \frac{2}{5}$ of the container remains filled.
- Choice B is correct.** (4.NBT.3) Rounding to the nearest ten thousand means we look at the thousands digit of each option. Option B (74,500): thousands digit is $4 < 5$, rounds DOWN to **70,000**. ✓ Option A (64,999): thousands digit is $4 < 5$, rounds DOWN to 60,000. Option C (75,001): thousands digit is $5 \geq 5$, rounds UP to 80,000. Option D (75,499): thousands digit is $5 \geq 5$, rounds UP to 80,000.
- Choice D is correct.** (4.NBT.1) Mason's thousands cards are worth $8 \times 1,000 = 8,000$; tens cards are worth $8 \times 10 = 80$. The ratio is $8,000 \div 80 = 100$ times. ✓
- Choice B is correct.** (4.G.2) A trapezoid is defined by having exactly one pair of parallel sides. Since parallelograms, rectangles, and rhombuses each have two pairs of parallel sides, they cannot be trapezoids. The answer is **B**.
- The correct answer is $1\frac{2}{4}$.** (4.NF.3) One whole is $\frac{4}{4}$, leaving $6 - 4 = 2$ more fourths. So $\frac{6}{4} = 1\frac{2}{4}$ ✓.
- Choice A is correct.** (4.MD.5) The small angle reaches the first degree mark at 9° , containing **9** one-degree angles.
- Choice A is correct.** (4.NF.5) The fraction $\frac{45}{100}$ means 45 hundredths, which equals 0.45.
- Choice D is correct.** (4.OA.4) First find the rule by looking at the gaps: $6 - 2 = 4$, $10 - 6 = 4$, $14 - 10 = 4$, $18 - 14 = 4$. So the rule is "add 4." Apply it once more: $18 + 4 = 22$.



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Hi, Math Athlete!

◇ 9 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. ACHIEVE TOMORROW!

This **Grade 4 Math Practice Tests** book is designed to help students strengthen essential math skills, build confidence, and develop the problem-solving abilities needed for classroom success and test readiness.

With 9 full-length practice tests, students gain repeated exposure to important Grade 4 concepts while learning how to approach questions with accuracy, confidence, and strong mathematical thinking.

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