

5

Ohio OST

Standards-Aligned Review with
Mixed Practice and Answer Key

A gold circular badge with a scalloped edge, containing the text "A+" in red. The badge is surrounded by colorful confetti and stars.

5 Ohio OST Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Five 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!

Five steady rounds on the Buckeye State math route

This book gives you five 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?

Five tests, 150 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 3–5	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 3–5	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.

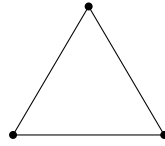


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1) Look at the triangle. Which type is it?



A. Right triangle

C. Acute triangle

B. Obtuse triangle

D. Right obtuse triangle

2) Which number sentence is incorrect?

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

C. $5 \times \frac{1}{5} = \frac{5}{10}$

B. $4 \times \frac{1}{6} = \frac{4}{6}$

D. $2 \times \frac{1}{3} = \frac{2}{3}$

3) A town's population grew from 34,567 to 56,789. What is the increase in population?

A. 21,222

C. 22,122

B. 21,122

D. 22,222

4)

Cost: $\times 7$

Total:

A store buys 7 guitars at \$6 each. How much does the store spend in total?

A. \$36

C. \$42

B. \$48

D. \$50



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5) A recipe for brownies uses $\frac{2}{3}$ cup of flour. If Lily wants to make the recipe 4 times, how much flour does she need?

A. $\frac{2}{12}$ cup

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

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

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

6) Victor has 16 toy cars. His cousin has 2 times as many toy cars as Victor. How many toy cars does his cousin have?

A. 18

B. 28

C. 40

D. 32

7) A figure that has more than 4 lines of symmetry must be which of the following?

 A. A triangle B. A quadrilateral C. A regular polygon with 5 or more sides or a circle D. A square

8) The place-value tables show two decimals.

Decimal	Tenths	Hundredths
Decimal 1	6	3
Decimal 2	3	6

Which decimal is smaller?

 A. Decimal 1 (0.63) B. Decimal 2 (0.36) C. They are equal D. Cannot compare with diagrams

1) Which statement describes a trapezoid?

- A. It has two pairs of parallel sides. C. It has exactly one pair of parallel sides.
 B. It has no parallel sides. D. It has four equal sides.

2) What decimal is equal to $0.2 + 0.09$?

- A. 0.11 C. 0.209
 B. 0.29 D. 2.9

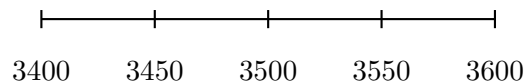
3) An angle measures 175° . It is split into two parts. One part is 96° . What does the other part measure?

- A. 79° C. 271°
 B. 96° D. 100°

4) Mia is comparing two prices. Socks cost \$0.80 and a pencil costs \$0.08. Which item costs more?

- A. The socks (\$0.80) C. Both cost the same
 B. The pencil (\$0.08) D. The pencil costs 10 times more

5) Using the number line, which number just below 3,500 rounds to 3,500 when rounded to the nearest hundred?



- A. 3,449 C. 3,500
 B. 3,551 D. 3,450



1) Which comparison symbol is correct?

A. $\frac{1}{5} > \frac{1}{3}$

C. $\frac{1}{5} = \frac{1}{3}$

B. $\frac{1}{5} < \frac{1}{3}$

D. $\frac{5}{1} < \frac{3}{1}$

2) Which shows $\frac{4}{10}$ as a sum of unit fractions?

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

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

B. $\frac{1}{10} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10}$

D. $\frac{1}{10} + \frac{3}{10}$

3) The letter Y has how many lines of symmetry?

 A. 0

 C. 2

 B. 1

 D. 3

4) Which two models show equivalent fractions?

A: 

B: 

C: 

 A. Models A and B

 C. Models B and C

 B. All three

 D. Models A and C

5) Look at the pattern: 5, 10, 20, 40, ... Which rule describes it?

 A. Add 5

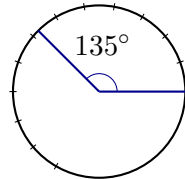
 C. Add 10

 B. Multiply by 3

 D. Multiply by 2


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6) Round 26,734 to the nearest hundred.

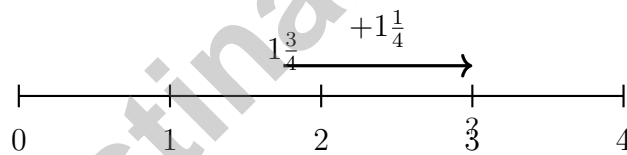


7)

This obtuse angle measures 135 degrees. How many one-degree angle units form this angle?

- | | |
|--|--|
| <input type="checkbox"/> A. 67.5 one-degree angles | <input type="checkbox"/> C. 270 one-degree angles |
| <input type="checkbox"/> B. 135 one-degree angles | <input type="checkbox"/> D. 13.5 one-degree angles |

8)



Using the number line, what is $1\frac{3}{4} + 1\frac{1}{4}$?

- | | |
|--|--|
| <input type="checkbox"/> A. 3 | <input type="checkbox"/> C. $2\frac{1}{4}$ |
| <input type="checkbox"/> B. $2\frac{3}{4}$ | <input type="checkbox"/> D. $3\frac{1}{4}$ |



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 C is correct.** (4.G.2) Since all three angles are less than 90 degrees (acute angles), this triangle is classified as an acute triangle. The answer is C.
- Choice C is correct.** (4.NF.4) Let's check: A: $1 \times \frac{1}{8} = \frac{1}{8}$ ✓. B: $4 \times \frac{1}{6} = \frac{4}{6}$ ✓. C: $5 \times \frac{1}{5} = \frac{5}{5} = 1$, not $\frac{5}{10}$ —incorrect! D: $2 \times \frac{1}{3} = \frac{2}{3}$ ✓.
- Choice D is correct.** (4.NBT.4) To find the increase, we subtract the old from the new. $56,789 - 34,567 = 22,222$ people.
- Choice C is correct.** (4.OA.3) The tape diagram shows 7 guitars at \$6 each—"each" with a count is a multiplication clue. Step 1: set up: $7 \times \$6$. Step 2: solve: $7 \times 6 = 42$, so the store spends \$42. *Quick check:* $\$42 \div 7 = \6 per guitar. ✓
- Choice B is correct.** (4.NF.4) Making the recipe 4 times means we multiply by 4. We get $4 \times \frac{2}{3} = \frac{8}{3}$ cups of flour.
- Choice D is correct.** (4.OA.2) "2 times as many" means multiply by 2: $2 \times 16 = 32$ toy cars.
- Choice C is correct.** (4.G.1) Squares have 4 lines and regular hexagons have 6. Pentagons with 5 sides have 5 symmetry lines, and octagons with 8 sides have 8 lines. Circles win with infinitely many! The answer is A regular polygon with 5 or more sides or a circle.
- Choice B is correct.** (4.NF.5) Read from the table: Decimal 1 is 6 tenths + 3 hundredths = 0.63. Decimal 2 is 3 tenths + 6 hundredths = 0.36. Since $0.36 < 0.63$, Decimal 2 is smaller.
- Choice B is correct.** (4.MD.2c) The tank needs 3 liters per day for 5 days. Multiply: $3 \times 5 = 15$ liters. He needs 15 liters of water.
- Choice C is correct.** (4.NBT.2) The digit 3 is in the hundreds place. Value: $3 \times 100 = 300$ ✓
- Choice C is correct.** (4.OA.4) List the even numbers from 20 through 30: 20, 22, 24, 26, 28, 30. Count them: 6 numbers. (Even numbers are exactly the ones divisible by 2.)
- Choice B is correct.** (4.NF.3) The recipe needs more flour than Noah has. Find the difference: $\frac{5}{4} - \frac{3}{4} = \frac{2}{4}$ cups more flour needed.
- Choice A is correct.** (4.NBT.5) Multiply by parts: $6 \times (60 + 5) = 360 + 30 = 390$ miles per day.
- Choice B is correct.** (4.MD.6) To measure an angle correctly, you must place one ray—called the baseline ray—right along the straight edge of the protractor, lined up with the 0° mark. This is your starting point for reading the other ray. The answer is along the straight edge at the 0-degree mark.
- Choice C is correct.** (4.MD.5) Mia's angle of 60° is composed of 60 one-degree angle units.
- The correct answer is A, D.** (4.NF.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.NF.3) Noah ate $\frac{2}{6}$ and his sister ate $\frac{3}{6}$. Together: $2 + 3 = 5$ sixths, so $\frac{5}{6}$ of the cookies were eaten.
- Choice A is correct.** (4.NF.1) Convert to common denominator: $\frac{1}{4} = \frac{2}{8}$. Since $\frac{3}{8} > \frac{2}{8}$, Maya ate more.
- Choice D is correct.** (4.OA.1) Look at the picture: Ava's bar is split into 4 equal pieces, each the same length as Noah's bar. That's exactly what "4 times as many" means—so we multiply: $Ava = 4 \times 4 = 16$ cards.
- The correct answer is $4\frac{8}{10}$.** (4.NF.3) Add the whole parts to get 4 and the fraction parts to get $\frac{8}{10}$. The answer is $4\frac{8}{10}$.
- Choice B is correct.** (4.MD.7) The diagram shows a straight angle divided into three parts. Add the two known ones: $48^\circ + 62^\circ = 110^\circ$. Then subtract: $180^\circ - 110^\circ = 70^\circ$.
- Choice C is correct.** (4.NBT.3) To round to the nearest thousand, always look at the digit one place to the right—that's the hundreds digit. The answer is C: "The hundreds place (3)" ✓
- Choice B is correct.** (4.G.1) A right angle is a special angle that measures exactly 90° . Think of the corner of your notebook — that's a right angle! Acute angles are smaller, obtuse angles are bigger, and straight angles are perfectly flat at 180° .
- Choice A is correct.** (4.MD.4) Count the weights: $\frac{4}{8}$ lb appears 3 times (the most!), $\frac{5}{8}$ lb once, and $\frac{6}{8}$ lb once. So $\frac{4}{8}$ lb has the most X marks.
- The correct answer is 4.** (4.NF.3) To reach $\frac{4}{6}$, we count the unit fractions: 4 jumps of $\frac{1}{6}$ get us there.



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Author's Note

From a Friend Who Believes in You

Hi, Friend!

◇ I just want to say something important: I am proud of you. You did 5 full practice tests. That takes time, hard work, and heart. ◇

★ **Friendly truth:** a test is just one part of your math journey. You are SO much more than a score. The work you did is the real win! ★

What I Want You to Know

- **You are smart.** Every test you finished proves it.
- **You are brave.** You tried hard problems.
- **You are growing.** Mistakes taught you new things.
- **You are ready.** The skills are inside you.

One more thing: on test day, take a deep breath. Smile. Remember that someone (me!) believes in you. You can do this!

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

Jay Daie

Your Math Friend

5 PRACTICE TESTS. BUILD SKILLS. BOOST CONFIDENCE!

This **Grade 4 Math Practice Tests** book is designed to help students master essential math concepts, improve problem-solving skills, and build the confidence they need to excel.

With 5 full-length practice tests, a variety of question types, and detailed answer explanations, students get the practice they need to understand math, strengthen critical thinking, and perform their best on test day and beyond.

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Prepare for Success

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

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- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals
- ✓ Geometry & Measurement
- ✓ Perimeter & Area
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- ✓ Patterns & Algebraic Thinking
- ✓ Word Problems
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