

# 8

# Ohio OST

# GRADE 4

# PRACTICE TESTS



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

**COMPREHENSIVE  
TEST PREP**

Includes Solutions

# 8 Ohio OST Grade 4 Math Practice Tests

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



Eight 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!

Eight steady rounds on the Buckeye State math route

This book gives you eight 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?

Eight tests, 240 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 6–8	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.



Scan me!  
For more practice  
& 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	_____	71
★ Practice Test 7	_____	82
★ Practice Test 8	_____	93
<b>Practice Test Answer Keys</b>	_____	<b>104</b>
<b>Practice Test Answers and Explanations</b>	_____	<b>105</b>

1) Ava read  $\frac{4}{5}$  of her book on Monday and  $\frac{1}{5}$  on Tuesday. What fraction of the book did she read in both days?

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

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

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

D.  $\frac{6}{10}$

2) How many degrees in  $\frac{2}{3}$  of a full turn around a circle?

A.  $180^\circ$

B.  $200^\circ$

C.  $240^\circ$

D.  $270^\circ$

3) 3 times 

?
---

30
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A zoo has 30 zebras. The number of zebras is 3 times the number of giraffes. How many giraffes are in the zoo?

A. 5

B. 25

C. 15

D. 10

4) Find  $4 \times \frac{1}{3}$ .

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5) What is  $3\frac{2}{10} - 1\frac{4}{10}$ ?

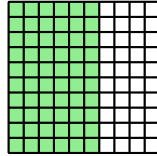
A.  $1\frac{4}{10}$

B.  $1\frac{5}{10}$

C.  $1\frac{6}{10}$

D.  $1\frac{8}{10}$

6) What decimal does this shaded region represent?



A. 0.60

B. 0.90

C. 0.06

D. 0.09

7) The space inside an angle is called:

 A. the exterior

 B. the arc

 C. the interior

 D. the vertex

8) Which statement about the diagram is correct?


 A. Point  $B$  is on segment  $AC$ 
 B. Point  $A$  is on segment  $BC$ 
 C. Point  $C$  is on segment  $AB$ 
 D. All three points are endpoints

9) Lily reads  $\frac{1}{3}$  of a book each day. How much of the book has she read after 2 days?

 A.  $\frac{1}{6}$  of the book

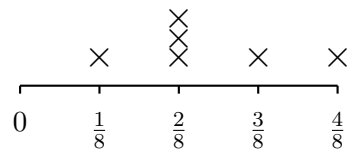
 B.  $\frac{2}{3}$  of the book

 C.  $\frac{2}{1}$  of the book

 D.  $\frac{4}{3}$  of the book




- 1) Look at the line plot of plant growth measurements (in inches). How many X marks are above  $\frac{2}{8}$  inch?



- A. 1
- B. 2
- C. 3
- D. 4
- 2) An angle is formed wherever two rays share a common:
- A. line
- B. endpoint
- C. segment
- D. circle
- 3) Iris has 9 game cards worth 34 points each. What is the total value of all the cards?
- A. 243 points
- B. 380 points
- C. 280 points
- D. 306 points
- 4) A recipe calls for 8 cups of flour. If the baker wants to make 4 batches, how many cups of flour are needed?
- A. 12 cups
- B. 24 cups
- C. 32 cups
- D. 36 cups
- 5) A race is 8,800 yards long. How many miles is this?
- A. 2
- B. 3
- C. 4
- D. 5



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- 6) In a classroom, there are 6 windows. There are 8 times as many tiles on the floor as windows. How many tiles are on the floor? If each tile costs \$2, how much do all the tiles cost in total?
- A. \$84                                       C. \$12  
 B. \$48                                       D. \$96
- 7) A water jug holds  $2\frac{2}{5}$  gallons. If  $1\frac{1}{5}$  gallons have been spilled, how much water is in the jug now?
- A.  $1\frac{1}{5}$                                        C.  $1\frac{2}{5}$   
 B.  $3\frac{3}{5}$                                        D.  $2\frac{1}{5}$
- 8) A baker divides 6 equal portions, each worth  $\frac{1}{12}$  of the cake. What fraction of the cake is 6 portions?
- A.  $\frac{1}{12}$                                        C.  $\frac{12}{6}$   
 B.  $\frac{6}{12}$                                        D.  $\frac{1}{6}$
- 9) A rectangle has an area of 88 square meters. The width is 8 meters. What is the length?
- A. 10 m                                       C. 11 m  
 B. 12 m                                       D. 13 m
- 10) What is  $4 \times \frac{3}{8}$  as a mixed number?
- A.  $\frac{3}{32}$                                        C.  $\frac{12}{8}$  or  $1\frac{1}{2}$   
 B.  $\frac{4}{8}$                                        D.  $\frac{12}{32}$



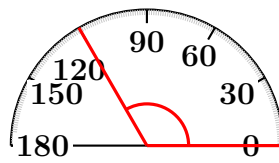


4) What is the value of the digit 8 in the number 1,289?

- A. 8                                       C. 800  
 B. 8,000                                 D. 80

5) What is  $3\frac{4}{6} + 1\frac{2}{6}$ ?

- A.  $4\frac{5}{6}$                                        C. 5  
 B.  $5\frac{1}{6}$                                        D.  $4\frac{2}{6}$



6)

A student measures an angle with a protractor. The angle opens to the 120-degree mark. What type of angle is this?

- A. Acute angle                               C. Obtuse angle  
 B. Right angle                                 D. Straight angle

7) Subtract:  $45,000 - 18,234 = ?$

- A. 26,766                                       C. 26,776  
 B. 27,766                                       D. 28,766



## 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 A is correct.** (4.NF.3) Ava read parts on two different days. Add the fractions:  $\frac{4}{5} + \frac{1}{5} = \frac{5}{5}$ , which means she read the whole book!
- Choice C is correct.** (4.MD.5) Two-thirds of the circle is  $\frac{2}{3} \times 360^\circ = 240^\circ$ .
- Choice D is correct.** (4.OA.2) The longer bar (30 zebras) is made of 3 equal pieces, each one giraffe-group's size. To find one piece, divide:  $30 \div 3 = 10$  giraffes.
- The correct answer is  $\frac{4}{3}$ .** (4.NF.4) Four thirds:  $4 \times \frac{1}{3} = \frac{4}{3}$ .
- Choice D is correct.** (4.NF.3) Since  $\frac{2}{10} < \frac{4}{10}$ , regroup:  $3\frac{2}{10} = 2\frac{12}{10}$ . Subtract:  $2\frac{12}{10} - 1\frac{4}{10} = 1\frac{8}{10}$ .
- Choice B is correct.** (4.NF.5) The hundredths grid is almost completely shaded: 90 squares out of 100. That equals  $\frac{90}{100} = 0.90 = 0.9$ .
- Choice C is correct.** (4.MD.5) The interior of an angle is the space inside, between the two rays.
- Choice A is correct.** (4.G.1) Look at the diagram: point  $B$  sits right in the middle between  $A$  and  $C$ . Since  $B$  is between them, it's definitely on segment  $AC$ .
- Choice B is correct.** (4.NF.4) Lily reads  $\frac{1}{3}$  of the book each day for 2 days. Multiply:  $2 \times \frac{1}{3} = \frac{2 \times 1}{3} = \frac{2}{3}$  of the book. The answer is  $\frac{2}{3}$  of the book.
- The correct answer is 864.** (4.NBT.6) Use long division:  $3 \div 4 = 0$  r3, bring down the 4 to get  $34 \div 4 = 8$  r2, bring down the 5 to get  $25 \div 4 = 6$  r1, bring down the 6 to get  $16 \div 4 = 4$ . Each friend reads **864** pages.
- Choice A is correct.** (4.NF.4) Since the bar is divided into 5 equal pieces, each piece is  $\frac{1}{5}$ . Ming ate 4 pieces, which equals  $4 \times \frac{1}{5} = \frac{4}{5}$  of the bar.
- Choice D is correct.** (4.OA.3) Three steps! Step 1: first company:  $5 \times 48 = 240$  pages. Step 2: second company:  $3 \times 65 = 195$  pages. Step 3: 240 is bigger, so the first company prints more—by  $240 - 195 = 45$  pages.
- Choice A is correct.** (4.NF.4) We multiply the number of candies by the weight of each:  $6 \times \frac{1}{8} = \frac{6}{8}$  pound. Simplify  $\frac{6}{8}$  to get  $\frac{3}{4}$  pound.
- Choice A is correct.** (4.NF.1) Divide both numerator and denominator by 5:  $\frac{5}{10} = \frac{5 \div 5}{10 \div 5} = \frac{1}{2}$ .
- Choice D is correct.** (4.NBT.3) We're rounding to the nearest thousand. Look at the hundreds digit: 5. Since  $5 \geq 5$ , we round UP! The thousands digit changes from 6 to 7, giving us **67,000**. ✓
- Choice A is correct.** (4.NF.3) Four copies of  $\frac{1}{4}$  are  $\frac{4}{4}$ , which makes one whole. Count the numerators:  $1 + 1 + 1 + 1 = 4$ .
- The correct answer is A, D.** (4.OA.4) Test each by trying small prime divisors (2, 3, 5, 7). 31: passes all—**prime** ✓.  $33 = 3 \times 11$  (composite).  $35 = 5 \times 7$  (composite). 37: passes all—**prime** ✓.  $39 = 3 \times 13$  (composite). So choices A and D are the prime numbers.
- Choice C is correct.** (4.MD.2c) Cookies sell for \$2 each. She sells 18 cookies, so multiply:  $2 \times 18 = 36$  dollars. She earns **\$36**.
- Choice D is correct.** (4.NBT.5) Think:  $3 \times 24 = 3 \times (20 + 4) = 60 + 12 = 72$  chairs.
- The correct answer is 8 in.** (4.MD.3) From area formula:  $72 = 9 \times w$ . Divide:  $w = 72 \div 9 = 8$  in.
- Choice A is correct.** (4.NBT.4) The first step is to add the ones place:  $6 + 9 = 15$ . We write 5 and carry 1 to the tens place. This is **6 + 9 = 15** (write 5, carry 1).
- Choice C is correct.** (4.NF.5) On a number line from 0 to 1:  $0.2 < 0.5 < 0.8$ . The value 0.5 is halfway between 0 and 1, right in the middle!
- Choice D is correct.** (4.NBT.2) The tens place (second from right) has the digit 2. Value:  $2 \times 10 = 20$  ✓
- Choice D is correct.** (4.NBT.1) Count each block type: 5 thousands, 0 hundreds, 3 tens, 7 ones. Sum:  $5,000 + 0 + 30 + 7 = 5,037$ . ✓
- Choice C is correct.** (4.G.2) Since one angle measures 95 degrees, which is greater than 90 degrees, this triangle is an obtuse triangle. The angle of 95 degrees is the obtuse angle. The answer is **C**.
- Choice D is correct.** (4.OA.1) "2 times as long" is a multiplication signal. The length is  $7 \times 2 = 14$  feet.
- Choice B is correct.** (4.MD.4) Add all the measurements:  $\frac{1}{8} + \frac{3}{8} + \frac{3}{8} + \frac{5}{8} = \frac{12}{8}$  inch.



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& answers

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Cheer Squad Final Pep Talk

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## Hi, Math Star!

◇ 8 practice tests! That's a LOT of work, and you did it ALL. I am cheering so loud right now. You earned every clap and every cheer! ◇

★ **Cheerleader truth:** confidence is built by showing up. You showed up 8 times. That's real confidence. It is not pretend! ★

### Cheer Roll Call

- **Effort:** 100% YOU SHOWED UP!
- **Heart:** BIG!
- **Skills:** STRONG and growing!
- **Spirit:** BRIGHT!

**Cheer tip:** on test day, be your own cheerleader. Whisper to yourself: "I can do this. I practiced." Tiny cheers make a big difference!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Cheerleader

# 8 PRACTICE TESTS. PREPARE. PRACTICE. SUCCEED!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master essential concepts, and boost confidence for success in the classroom and beyond.

Featuring 8 full-length practice tests, a variety of question types, and detailed answer explanations, this book provides the practice and support students need to improve accuracy, strengthen problem-solving abilities, and achieve their best.

Perfect for classroom use, homework, test preparation, and extra practice at home.

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SUCCESS FOR LIFE.

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