

+  
★  
**10**

=

**Ohio  
OST**



**GRADE 3**

**MATH**

**PRACTICE TESTS**

- ✓ Complete Standards Review
- ✓ Skill Practice
- ✓ Word Problems and Answer Key

**2 × 7 + 4**



★ ★ ★  
**PREPARE  
PRACTICE  
SUCCEED!**  
★ ★ ★



Aligned to  
Grade 3 Math  
Standards



Build Confidence  
and Master  
Math Skills



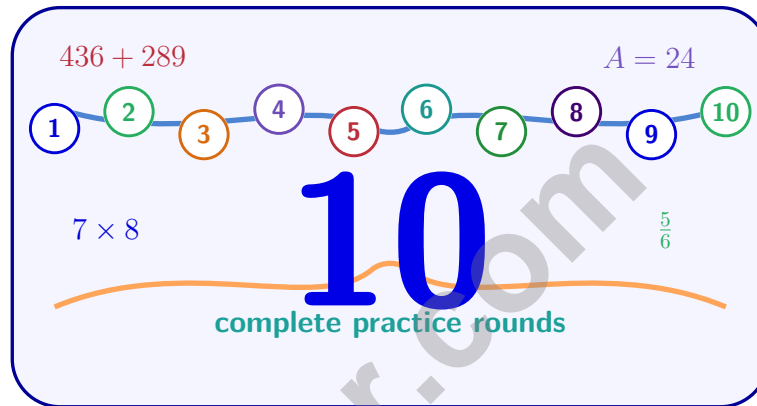
Test-Taking  
Practice for  
Success



Answer Key  
for Easy  
Review

# 10 Ohio OST Grade 3 Math Practice Tests

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



Ten complete 30-question Grade 3 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!

Ten steady rounds on the Buckeye State math route

This book gives you ten full Grade 3 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?

Ten tests, 300 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.
Test 10	Final round to show growth across the whole Ohio book.
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

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1) A composite shape is divided by dashed lines. Part A has area 7 sq units. Part B has area 9 sq units. What is the total?

- A. 9 sq units                       C. 63 sq units  
 B. 16 sq units                       D. 2 sq units

2) A square piece of fabric has sides of 8 inches. What is its area?

- A. 16 square inches                       C. 56 square inches  
 B. 32 square inches                       D. 64 square inches

3)

Bag	Mass
Apples	4 kg
Oranges	2500 g

Which bag is heavier?

- A. The apples (4 kg)                       C. Both bags weigh the same  
 B. The oranges (2500 g)                       D. Cannot be determined

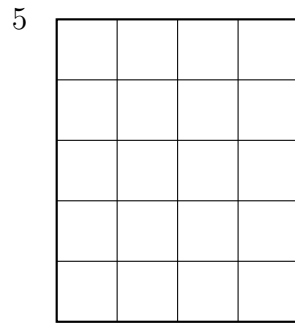
4) What number makes the equation true?

$$30 \div 5 = \square$$

- A. 5     C. 7  
 B. 8     D. 6



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5)

4

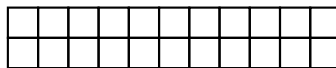
Count all the unit squares. What is the area?

- A. 9
- B. 18

- C. 20
- D. 40

6) What is  $9 \times 40$ ? Show how you decompose the 40 and use place value to find your answer.

7) Here is a long thin rectangle made of unit squares:



Count the unit squares. What is the area?

- A. 11 sq units (just one row)
- B. 13 sq units

- C. 22 sq units
- D. 44 sq units



8) A rectangle is split into two parts with areas 35 and 21. Both parts share one dimension of length 7. What is the total area?

A. 56

C. 42

B. 70

D. 49

9) Mia and one friend share 16 cookies equally. How many cookies does each person get?

A. 6

C. 14

B. 18

D. 8

10)  $308 + 175 = ?$

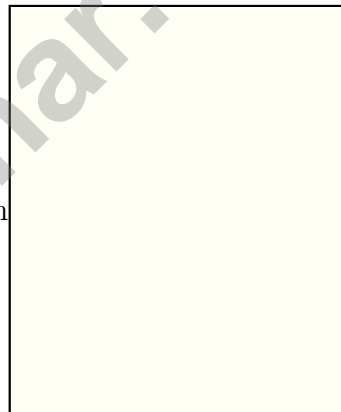
A. 483

C. 475

B. 484

D. 493

6 cm



5 cm

11)

A rectangular notebook is 5 centimeters wide and 6 centimeters tall. Find the area.

A. 11 sq cm

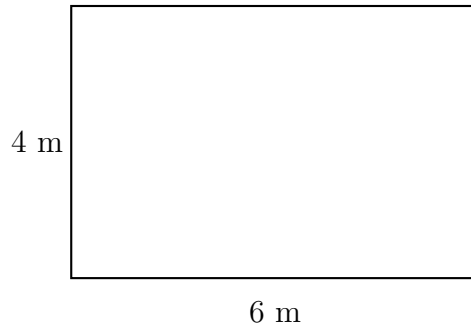
C. 22 sq cm

B. 30 sq cm

D. 60 sq cm



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1)

A rectangular parking spot measures 6 meters by 4 meters. What is its area?

- A. 10 sq m
- B. 20 sq m
- C. 12 sq m
- D. 24 sq m

**Addition Problem**

Hundreds	Tens	Ones
3	6	7
+	+	+
2	1	5

2)

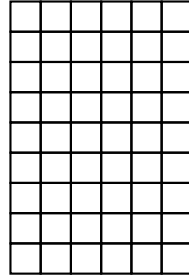
Using the place-value chart, what is  $367 + 215$ ?

- A. 572
- B. 681
- C. 692
- D. 582



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- 3) A rectangular playground is 6 unit squares wide and 9 unit squares long. Look at the grid:

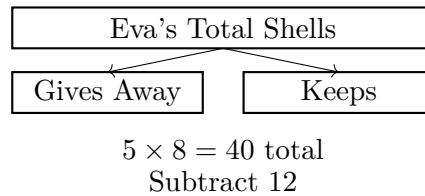


How many unit squares cover the playground?

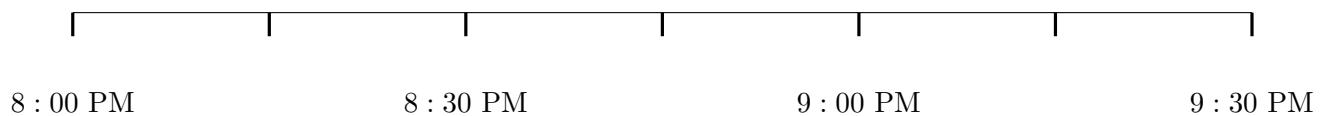
- A. 15 unit squares (just one row and column)       C. 48 unit squares  
 B. 54 unit squares       D. 72 unit squares
- 4) Lily's sandbox is a square with sides of 5 feet. How many square feet is the sandbox?
- A. 10 sq ft       C. 25 sq ft  
 B. 20 sq ft       D. 30 sq ft
- 5) Ordering fractions: which list goes from smallest to largest?
- A.  $\frac{1}{8}, \frac{1}{4}, \frac{1}{2}$        C.  $\frac{1}{4}, \frac{1}{8}, \frac{1}{2}$   
 B.  $\frac{1}{2}, \frac{1}{4}, \frac{1}{8}$        D.  $\frac{1}{8}, \frac{1}{2}, \frac{1}{4}$



- 1) Eva collects 5 bags with 8 shells in each bag. She gives away 12 shells to her friend. How many shells does Eva keep?



- A. 12                                       C. 28  
 B. 24                                       D. 40
- 2) What number makes the equation true?
- $20 \div 4 = \square$
- A. 4     C. 6  
 B. 7     D. 5
- 3) A picture graph shows ribbons. Each star represents 2 ribbons. Blue ribbons: 5 stars. Red ribbons: 3 stars. How many more blue ribbons than red?
- A. 2     C. 6  
 B. 4     D. 10
- 4) Look at this number line showing times.

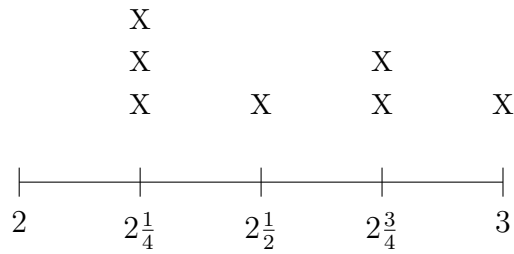


How many minutes pass from 8 : 00 PM to 9 : 00 PM?

- A. 30 minutes                                       C. 90 minutes  
 B. 60 minutes                                       D. 120 minutes



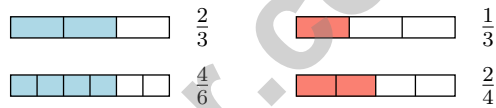
5) A line plot displays cookie weights in ounces:  $2, 2\frac{1}{4}, 2\frac{1}{2}, 2\frac{3}{4}, 3$ .



What weight has exactly 2 cookies?

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

6) Which two fraction bars show equivalent fractions?



- A.  $\frac{2}{3}$  and  $\frac{4}{6}$                        C.  $\frac{1}{3}$  and  $\frac{2}{4}$   
 B.  $\frac{2}{3}$  and  $\frac{1}{3}$                        D.  $\frac{4}{6}$  and  $\frac{2}{4}$

7) What is 916 rounded to the nearest 100?

- A. 900                                       C. 916  
 B. 910                                       D. 1000

8) A piece of ribbon is divided into 2 equal lengths on a number line from 0 to 1. What is the unit fraction?

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



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## Practice Test Answer Keys

**How to use this section with a Grade 3 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

- 1) **Choice B is correct.** **(3.MD.7d)** Add the parts:  $7 + 9 = 16$  square units. Choice A (forgot Part A) and C (multiply instead of add) are common errors.
- 2) **Choice D is correct.** **(3.MD.5)** For a square:  $8 \times 8 = 64$  square inches.
- 3) **Choice A is correct.** **(3.MD.2)**  $4 \text{ kg} = 4000 \text{ g}$ , which is more than 2500 g.
- 4) **Choice D is correct.** **(3.OA.4)** Think:  $6 \times 5 = 30$ , so  $30 \div 5 = 6$ .
- 5) **Choice C is correct.** **(3.MD.7a)** Visual grid: 4 wide  $\times$  5 tall = 20 square units.
- 6) **The correct answer is 360.** **(3.NBT.3)** Students should show that they break 40 into  $4 \times 10$ , multiply  $9 \times 4 = 36$  first, then multiply by 10 to get 360. Decomposition and place-value strategy are key.
- 7) **Choice C is correct.** **(3.MD.5b)** Count the rows: 2 rows. Count across: 11 unit squares per row. Total:  $11 + 11 = 22$  square units.
- 8) **Choice A is correct.** **(3.MD.7c)**  $35 = 7 \times 5$  and  $21 = 7 \times 3$ , so total is  $7 \times (5 + 3) = 7 \times 8 = 56$ .
- 9) **Choice D is correct.** **(3.OA.2)** There are 2 people total.  $16 \div 2 = 8$ , so each person gets 8 cookies.
- 10) **Choice A is correct.** **(3.NBT.2)** Ones:  $8 + 5 = 13$  (write 3, carry 1). Tens:  $0 + 7 + 1 = 8$ . Hundreds:  $3 + 1 = 4$ . Answer: 483.
- 11) **Choice B is correct.** **(3.MD.7b)** Area = width  $\times$  height =  $5 \times 6 = 30$  square centimeters.
- 12) **Choice B is correct.** **(3.MD.6)** 8 units  $\times$  3 units = 24 unit squares.
- 13) **Choice D is correct.** **(3.OA.5)** The commutative property says you can switch the order of the factors and still get the same answer. So  $2 \times 7 = 7 \times 2 = 14$ .
- 14) **Choices A and B are correct.** **(3.OA.6)** A and B are correct because they show the two division facts from  $7 \times 8 = 56$ . C is false because  $72 \div 9 = 8$ , not 7. D is false because  $20 \div 5 = 4$  and  $5 \div 20$  is not a whole number; they are different. E is partially true but is a distractor because it doesn't test understanding of the inverse relationship.
- 15) **Choice C is correct.** **(3.NBT.1)** For 367, look at the tens digit (6). Since  $6 \geq 5$ , round the hundreds digit up: 367 rounds to 400.
- 16) **Choice B is correct.** **(3.MD.7)** Lily's area =  $6 \times 5 = 30$  sq units. Mia's area =  $7 \times 4 = 28$  sq units.  $30 > 28$ , so Lily's is larger.
- 17) **Choice B is correct.** **(3.MD.4)** Add known days:  $2 + 3 + 2 + 1 = 8$ . Subtract from total:  $10 - 8 = 2$  days with 2 inches.
- 18) **Choice D is correct.** **(3.OA.3)** Multiply: 4 necklaces  $\times$  5 beads per necklace = 20 beads.
- 19) **Choice B is correct.** **(3.MD.5a)**  $4 \text{ cm} \times 2 \text{ cm} = 8$  square centimeters, which equals 8 unit squares of 1 cm each.
- 20) **Choice D is correct.** **(3.OA.9)** Each product is made by multiplying a number by itself:  $1 \times 1$ ,  $2 \times 2$ ,  $3 \times 3$ , and so on. That is the pattern on this diagonal.
- 21) **Choice A is correct.** **(3.NF.3a)** Cake A has  $\frac{1}{2}$  left. Cake B has  $\frac{3}{6}$  left.  $\frac{1}{2} = \frac{3}{6}$ .
- 22) **Choice B is correct.** **(3.MD.3)** Summer:  $5 \times 8 = 40$ . Winter:  $3 \times 8 = 24$ . Difference:  $40 - 24 = 16$ .
- 23) **Choice D is correct.** **(3.OA.7)**  $72 \div 8 = 9$ . Each page holds 8 stickers, so 72 stickers fill 9 pages.
- 24) **Choice B is correct.** **(3.NF.3)** On the number line,  $\frac{2}{6}$  and  $\frac{1}{3}$  mark the same point.
- 25) **Choice B is correct.** **(3.NF.2b)**  $\frac{7}{3} = 2\frac{1}{3} \approx 2.33$ . This is between 2 and 3, closer to 2.
- 26) **Choice A is correct.** **(3.NF.2a)** Three equal parts means each is  $\frac{1}{3}$ .
- 27) **The correct answer is 1.** **(3.NF.2)** The right endpoint is  $\frac{2}{2} = 1$ .
- 28) **Choice A is correct.** **(3.G.1)** A square has 4 equal sides (making it a rhombus) and 4 right angles (making it a rectangle). So a square is both.
- 29) **The correct answer is 8 equal parts.** **(3.G.2)** Eighths mean there are 8 equal parts.
- 30) **Choice B is correct.** **(3.NF.1)** The rectangle has 3 equal parts, and 1 part is shaded. The unit fraction is  $\frac{1}{3}$  (one-third).

### Practice Test 2 Answers and Explanations



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Star Player Pep Talk

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## Hi, Star Player!

◇ 10 practice tests. Every one of them was a chance to grow. You took every chance. That's why you're a math star today! ◇

★ **Star players know:** confidence comes from practice. You can't fake it. You build it. You built yours over 10 tests. It's real now! ★

### Star Player Stats

- **Practice:** OFF THE CHARTS!
- **Skills:** BROAD! You can do many problem types.
- **Toughness:** HIGH! You don't quit on hard problems.
- **Game Plan:** READY! You know your strategies.

**Star tip:** on test day, take it one play at a time. One problem. Then the next. You will earn your stars!

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 Coach

Testinar.com

# PRACTICE TODAY. SUCCEED TOMORROW!

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