

# 6

# Ohio OST

## GRADE 3

# MATH

## PRACTICE TESTS

Standards-Aligned Practice with  
Review, Answer Keys, and Explanations



6 Full-Length  
Practice Tests



Detailed Answer Keys  
and Explanations



Master Skills.  
Boost Scores.  
Succeed!

# 6 Ohio OST Grade 3 Math Practice Tests

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



Six complete 30-question practice labs for Grade 3 math: operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Welcome to the Six Skill Labs

Six full tests, six focused resets, and a stronger Grade 3 problem solver



Notice the pattern. Choose a tool. Explain the answer.

## To the Grade 3 Math Builder

This book gives you six practice labs for the Ohio OST. Each lab is a complete 30-question test, so students can practice accuracy, stamina, and clear mathematical thinking.

Ohio brings river towns, lake shores, space history, and farm counties. Strong math uses that same care: read the task, select a strategy, build the solution, and check facts, units, and reasonableness.

### Decode

Find the question, the units, and the useful numbers.

### Design

Use an equation, array, number line, graph, or sketch.

### Confirm

Make sure the answer matches the question.

**Six-lab promise:** I will work with patience, show useful thinking, and treat corrections as part of learning.

# How to Use This Book

A six-lab routine for steady Grade 3 growth

Use one practice lab at a time. The goal is not only to finish more pages. The goal is to finish, review, repair, and bring a smarter habit to the next test. For Ohio students, each lab is a short route through river towns, lake shores, space history, and farm counties: steady, alert, and ready for the next clue.

1. **Warm up.** Skim the reference materials and remind yourself of common tools.
2. **Take one test.** Work steadily and mark problems that need a second look.
3. **Check answers.** Use the compact answer keys first.
4. **Read explanations.** Study missed items and any lucky guesses.
5. **Redo two problems.** Rewrite the work cleanly without peeking.
6. **Set the next lab goal.** Choose one skill or habit to improve.

**Best review habit:** A mistake is most useful when you can say why it happened and what you will do differently next time.



## What Is Inside?

Six complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–6	Solve six different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read why each answer works.	Turn missed items into a clear next step.
Standards Reference	See how Ohio Grade 3 standards connect to practice.	Understand the skills behind the questions.

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. This gives students practice with quick decisions, careful reading, and short written math answers for the Ohio OST path.

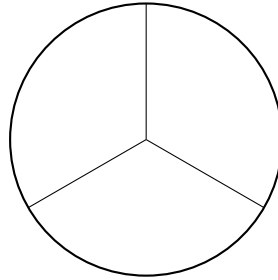


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- 1) A circle is divided into equal parts. Each part is  $\frac{1}{3}$  of the circle. How many equal parts is the circle divided into?



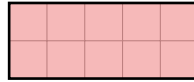
- A. 2 parts                       C. 4 parts  
 B. 3 parts                       D. 6 parts
- 2) A baker puts 6 cupcakes in each box. If he has 9 boxes, how many cupcakes does he have in total?
- A. 15                               C. 63  
 B. 45                               D. 54
- 3) Lily has 16 strawberries. She puts them equally into 2 bowls. How many strawberries are in each bowl?
- A. 7                                   C. 14  
 B. 18                                 D. 8
- 4) What number makes the equation true?

$$24 \div 3 = \square$$

- A. 9                                   C. 6  
 B. 7                                   D. 8



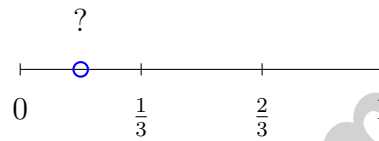
5) This rectangle is divided into unit squares.



Which multiplication sentence shows the area?

- A.  $5 \times 2 = 10$ 
 C.  $2 \times 2 = 4$   
 B.  $5 \times 5 = 25$ 
 D.  $7 \times 2 = 14$

6)



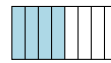
The blue dot is halfway between 0 and  $\frac{1}{3}$ . Which comparison is true?

- A. The dot  $> \frac{1}{3}$ 
 C. The dot  $= \frac{2}{3}$   
 B. The dot  $< \frac{1}{3}$ 
 D. The dot  $= 0$

7) Which rectangle shows  $\frac{2}{4}$  and  $\frac{4}{8}$  as equivalent?



Rectangle A



Rectangle B

- A. Both rectangles
  C. Rectangle B only  
 B. Rectangle A only
  D. Neither rectangle

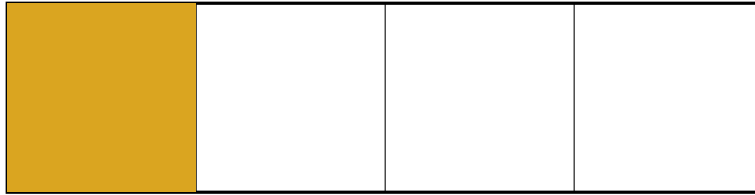
8) Which fraction equals the whole number 2?

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



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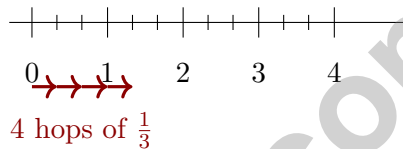
9) Look at the rectangle. It is divided into equal parts, and one part is shaded.



What fraction is shaded?

- A.  $\frac{1}{4}$   
 B.  $\frac{1}{3}$

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



10)

A frog makes 4 hops, each of size  $\frac{1}{3}$ , starting at 0 on a number line from 0 to 4 divided into thirds. Where does the frog end up?

- A.  $\frac{3}{3}$  (at 1)

- C.  $\frac{1}{3}$  (before 1)

- B.  $\frac{4}{3}$  (between 1 and 2)

- D.  $\frac{7}{3}$  (past 2)

11) A bell rings at 1 : 16 PM. What time will it be 29 minutes later?

- A. 1 : 35 PM

- C. 2 : 00 PM

- B. 1 : 45 PM

- D. 1 : 40 PM

12) What is  $9 \times 80$ ?

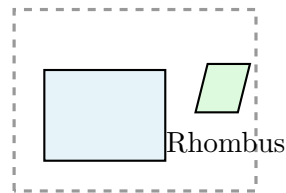
- A. 72 (forgot to multiply by 10)

- C. 89 (added the digits)

- B. 7200 (added two zeros)

- D. 720





Rectangle

1)

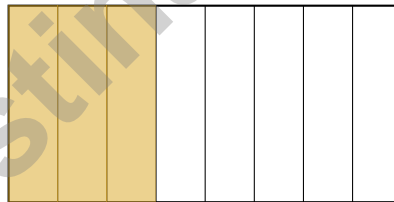
Two shapes are shown. Which property do they share?

- A. Both have right angles       C. Both have equal sides  
 B. Both have 4 sides       D. Both are squares

2) Eli found that  $6 \times 7 = 42$ . Now he needs to find  $7 \times 6$ . What does he know?

- A.  $7 \times 6 = 41$        C.  $7 \times 6 = 43$   
 B.  $7 \times 6 = 49$        D.  $7 \times 6 = 42$

3) A rectangle is divided into 8 equal parts. Noah shades  $\frac{3}{8}$  of the rectangle. How many parts does he shade?



- A. 2 parts       C. 4 parts  
 B. 3 parts       D. 5 parts

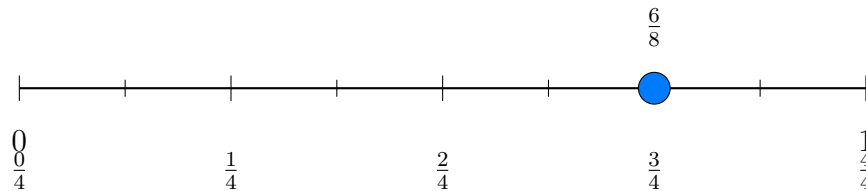


4) A garden is divided into 6 equal sections. What unit fraction represents one section?

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

- C.  $\frac{5}{6}$   
 D.  $\frac{1}{7}$

5) Look at the number line. Which fraction equals  $\frac{3}{4}$ ?



- A.  $\frac{1}{2}$   
 B.  $\frac{2}{4}$

- C.  $\frac{1}{4}$   
 D.  $\frac{3}{4}$

6) Emma measured twig lengths in inches. At the 4 inch mark, there are 5 X's. At the  $4\frac{1}{4}$  inch mark, there are 3 X's. How many more twigs are exactly 4 inches long than  $4\frac{1}{4}$  inches long?

- A. 1  
 B. 2

- C. 3  
 D. 8

7) Find  $30 \div 5$ .



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1) Ben has 4 boxes with 5 markers in each. Which number sentence shows how many markers he has?

A.  $4 + 5 = 9$

C.  $4 \times 4 = 16$

B.  $5 + 5 + 5 = 15$

D.  $4 \times 5 = 20$

2) A picture graph shows stickers. Each heart represents 2 stickers. Mia had 8 hearts, then gave away 3 hearts. How many stickers does Mia have now?

 A. 5 stickers

 C. 16 stickers

 B. 10 stickers

 D. 11 stickers

3) A rectangle has a length of 10 cm and a width of 2 cm. Which answer shows its area?

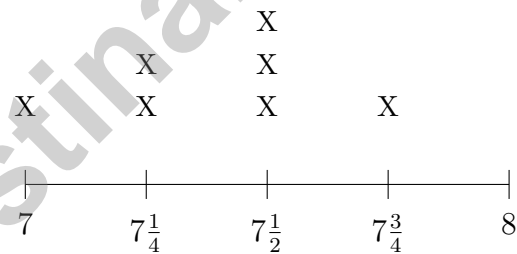
 A. 12 sq cm

 C. 20 sq cm

 B. 24 sq cm

 D. 30 sq cm

4) A line plot shows paintbrush lengths in inches:  $7$ ,  $7\frac{1}{4}$ ,  $7\frac{1}{2}$ ,  $7\frac{3}{4}$ ,  $8$ .



What is the most common paintbrush length?

 A. 7 inches

 C.  $7\frac{1}{2}$  inches

 B.  $7\frac{1}{4}$  inches

 D.  $7\frac{3}{4}$  inches


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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.G.2)** If each part is  $\frac{1}{3}$ , the circle is divided into 3 equal parts.
- 2) **Choice D is correct.** **(3.OA.3)**  $9 \text{ boxes} \times 6 \text{ cupcakes per box} = 54 \text{ cupcakes}$ .
- 3) **Choice D is correct.** **(3.OA.2)**  $16 \div 2 = 8$ . The strawberries are shared equally between 2 bowls.
- 4) **Choice D is correct.** **(3.OA.4)** Use the inverse:  $8 \times 3 = 24$ , so  $24 \div 3 = 8$ .
- 5) **Choice A is correct.** **(3.MD.6)** The rectangle has 5 units wide and 2 units tall.  $5 \times 2 = 10 \text{ sq units}$ .
- 6) **Choice B is correct.** **(3.NF.3d)** The blue dot is halfway between 0 and  $\frac{1}{3}$ , so it represents  $\frac{1}{6}$ . Since  $\frac{1}{6} < \frac{1}{3}$ , the dot is to the left of  $\frac{1}{3}$ .
- 7) **Choice A is correct.** **(3.NF.3b)** Rectangle A shows  $\frac{2}{4}$  (2 out of 4 parts) and Rectangle B shows  $\frac{4}{8}$  (4 out of 8 parts). Both represent the same amount, so  $\frac{2}{4} = \frac{4}{8}$ .
- 8) **Choice C is correct.** **(3.NF.3c)** 2 equals  $\frac{2}{1}$  (two wholes divided into one part each).
- 9) **Choice A is correct.** **(3.NF.1)** The rectangle is divided into 4 equal parts. Even though the shading might look uneven, one complete part is shaded, which is  $\frac{1}{4}$ .
- 10) **Choice B is correct.** **(3.NF.2b)** Four hops of size  $\frac{1}{3} = 4 \times \frac{1}{3} = \frac{4}{3} = 1\frac{1}{3}$ . The frog lands between 1 and 2.
- 11) **Choice B is correct.** **(3.MD.1a)**  $1 : 16 + 29 \text{ min} = 1 : 45 \text{ PM}$ .
- 12) **Choice D is correct.** **(3.NBT.3)** Multiply  $9 \times 8 = 72$ , then multiply by 10 to get 720:  $9 \times 80 = (9 \times 8) \times 10 = 72 \times 10 = 720$ .
- 13) **Choice C is correct.** **(3.NF.2)** The dot is at the 3rd mark out of 8 equal divisions, so the fraction is  $\frac{3}{8}$ .
- 14) **Choice A is correct.** **(3.NBT.2)** Subtract to find the missing addend:  $506 - 189 = 317$ . Check:  $317 + 189 = 506$ .
- 15) **Choice A is correct.** **(3.NBT.1)** The tens digit is 3. Since  $3 < 5$ , round down: 137 rounds to 100.
- 16) **Choice B is correct.** **(3.NF.2a)** Larger denominators give smaller fractions.  $\frac{1}{8} < \frac{1}{4} < \frac{1}{2}$ .
- 17) **Choices A and C are correct.** **(3.NF.3a)** A:  $\frac{1}{3} = \frac{2}{6}$  (both equal one-third). C:  $\frac{3}{4} = \frac{6}{8}$  (both equal three-fourths). B is false because  $\frac{4}{8} = \frac{1}{2}$ . D is false because  $\frac{1}{4} \neq \frac{3}{8}$ . E is false because  $\frac{2}{4} = \frac{1}{2} \neq \frac{3}{8}$ .
- 18) **Choice D is correct.** **(3.OA.6)**  $40 \div 5 = \square$  means  $\square \times 5 = 40$ . Since  $8 \times 5 = 40$ , the answer is 8.
- 19) **Choice A is correct.** **(3.MD.3)** Ben's bar is 2 units tall.  $2 \times 10 = 20$  apples.
- 20) **Choice D is correct.** **(3.OA.1)** 6 anthills with 9 ants each means 6 groups of 9. So  $6 \times 9 = 54$  ants.
- 21) **The correct answer is 23 square feet.** **(3.MD.7d)** Rectangle 1:  $7 \times 2 = 14 \text{ sq ft}$ . Rectangle 2:  $3 \times 3 = 9 \text{ sq ft}$ . Total:  $14 + 9 = 23 \text{ sq ft}$ .
- 22) **Choice B is correct.** **(3.MD.7b)** Area = width  $\times$  height =  $12 \times 6 = 72 \text{ square inches}$ .
- 23) **The correct answer is 48.** **(3.OA.5)**  $6 \times 5 = 30$  and  $6 \times 3 = 18$ , so  $30 + 18 = 48$ .
- 24) **Choice D is correct.** **(3.OA.9)** Odd  $\times$  odd always gives an odd number. For example:  $1 \times 1 = 1$ ,  $3 \times 3 = 9$ ,  $5 \times 7 = 35$ .
- 25) **Choice D is correct.** **(3.OA.8)** Step 1: Total sheets:  $5 \times 10 = 50$  sheets. Step 2: Divide among students:  $50 \div 5 = 10$  sheets per student.
- 26) **Choice C is correct.** **(3.MD.2)** Multiply:  $4 \times 250 = 1000 \text{ mL}$ .
- 27) **The correct answer is 4 equal sides.** **(3.G.1)** A rhombus is defined by having 4 equal sides. When that rhombus also has 4 right angles (like a rectangle), it meets the definition of a square. A square is the shape that has properties of BOTH a rhombus and a rectangle.
- 28) **Choice B is correct.** **(3.NF.3)** Ava used 4 out of 8 markers, which is  $\frac{1}{2}$ .
- 29) **Choice A is correct.** **(3.MD.7c)** Both rectangles share width 5. Adding them means adding the other dimensions:  $9 + 3 = 12$ , so  $5 \times (9 + 3)$ .
- 30) **Choice A is correct.** **(3.OA.7)**  $4 \times 7 = 28$ . Count by 7s four times: 7, 14, 21, 28.

### Practice Test 2 Answers and Explanations



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Cheer Squad Final Pep Talk

Hi, Math Star!

◇ 6 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 6 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

# BUILD CONFIDENCE. MASTER MATH. ACHIEVE SUCCESS!



This **Grade 3 Math Practice Tests** book is the perfect companion for students who want to strengthen their math skills and excel in school. With **6** full-length practice tests designed to reflect real test formats, students get the practice they need to understand key concepts, build problem-solving skills, and tackle any challenge with confidence.

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Builds Critical Thinking & Problem-Solving