

4

Ohio OST

Grade 3

MATH

PRACTICE TESTS

Standards-Aligned Practice



STANDARDS-ALIGNED

Practice to build skills and boost confidence



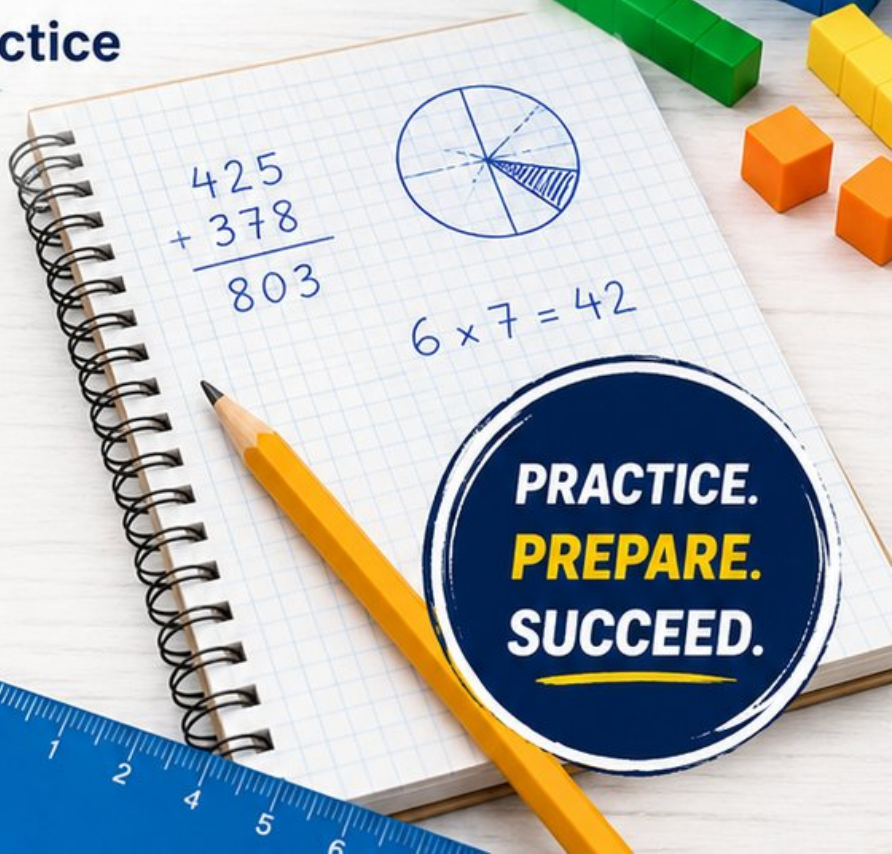
4 FULL-LENGTH TESTS

Realistic questions to prepare for test day



ANSWER KEYS & EXPLANATIONS

Detailed solutions to learn and improve



4 Ohio OST Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Four focused 30-question missions for Grade 3 math: number facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

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Welcome to the Ohio Math Launch

Four missions, careful work, and a stronger Grade 3 thinker



Read the mission. Show the work. Check the answer. Launch again.

To the Grade 3 Mission Leader

This book is a four-mission practice launch for the Ohio OST. Each test gives you a fresh chance to multiply, divide, read graphs, compare fractions, measure, find area, and explain math in a way someone else can follow.

Ohio has lake shores, river towns, and crossroads that make smart checking useful. Good math uses the same habit: pause, check the details, and move forward with a steady plan.

Notice

Find the numbers, units, and question before choosing a path.

Model

Draw an array, number line, table, or quick equation.

Verify

Ask whether your answer fits the story and the unit.

Launch promise: I will slow down at the important moments, show the work I can, and use every miss as a clue for the next mission.

How to Use This Book

A four-mission routine for steady Grade 3 growth

1. Warm Up the System

Read the review pages first. Remind your brain how equal groups, fractions, clocks, graphs, and area models work.

2. Fly One Mission

Take one complete 30-question test. Keep your work neat enough that you can check it later.

3. Review the Flight

Use the answer key, then pause. A wrong answer is useful when you can name what happened.

4. Repair and Relaunch

Rework a few missed questions before starting the next test. The repair step is where the score begins to move.

A Four-Session Plan

Session 1	Take Test 1 and mark the topics that need attention.
Session 2	Take Test 2 and focus on showing every step clearly.
Session 3	Take Test 3 and watch for units, labels, and two-step problems.
Session 4	Take Test 4 and finish with calm, careful checking.

Best mission habit: After checking answers, write one sentence: “Next time I will pay attention to _____.”



Test Overview

What each Grade 3 math mission asks you to do

Each practice test has 30 questions. Across four tests, you will practice the kind of Grade 3 math thinking used on the Ohio OST: reading carefully, choosing a strategy, doing accurate computation, and explaining enough work to make your answer clear.

Multiple Choice

Look for the best answer. Estimate first when you can, cross out choices that do not fit, and reread the question before you choose.

Open Response

Write the answer and show the reason. A good Grade 3 response may use a drawing, equation, table, number line, or a few clear words.

Math Ideas Inside the Four Tests

- multiplication, division, arrays, missing factors, and two-step word problems
- place value, rounding, addition, subtraction, and multiplying by tens
- unit fractions, number lines, equivalent fractions, and comparing fractions
- time, mass, liquid volume, picture graphs, bar graphs, and line plots
- area, perimeter, unit squares, rectangles, and shape categories

What strong OST work looks like: the answer matches the question, the units make sense, and the work is clear enough to check.



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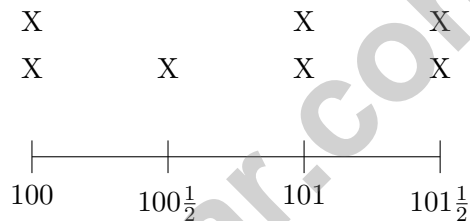
5) Two students round differently. Maria says 127 rounds to 130 (nearest 10). Josh says 127 rounds to 100 (nearest 100). Are both students correct? Explain.

- A. Both are wrong; the answer is 125 C. Both are correct because they are rounding to different place values
 B. Maria is wrong; Josh is right D. Josh is wrong; Maria is right

6) Noah buys 7 packs of pencils. Each pack has 10 pencils. How many pencils does Noah buy?

- A. 17 C. 710
 B. 701 D. 70

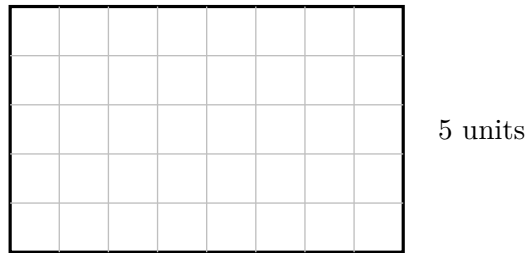
7) A line plot shows notebook page counts: $100, 100\frac{1}{2}, 101, 101\frac{1}{2}$.



If we remove 1 notebook with 100 pages, how many notebooks remain?

- A. 5 C. 7
 B. 6 D. 8





8) 8 units

Count the unit squares. What is the area of the rectangle?

- A. 40 sq units C. 13 sq units
 B. 32 sq units D. 64 sq units

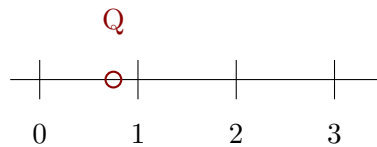
9) A rope is divided into 8 equal sections. What unit fraction describes one section?

- A. $\frac{1}{8}$ C. $\frac{2}{8}$
 B. $\frac{8}{1}$ D. $\frac{1}{9}$

10) Which fraction is NOT equivalent to $\frac{2}{6}$?

- A. $\frac{1}{3}$ C. $\frac{1}{2}$
 B. $\frac{2}{8}$ D. $\frac{2}{3}$

11)



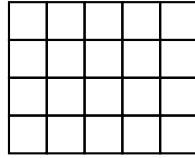
The number line from 0 to 3 is divided into 4 equal parts. What fraction of the distance from 0 to 3 is point Q ?

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



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- 1) Here is a rectangle with 5 unit squares across and 4 unit squares down:



If you count all the unit squares, how many are there?

- A. 9 unit squares C. 20 unit squares
 B. 18 unit squares D. 20 square cm
- 2) There are 20 cookies in 4 equal bags. Find $20 \div 4$ to show how many cookies are in each bag.

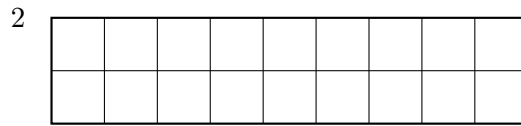
A large empty rectangular box for writing the answer to question 2.

- 3) Noah buys 2 toy cars. Each car costs \$8. How much money does Noah spend?

- A. \$6 C. \$18
 B. \$10 D. \$16

- 4) A rectangular game board is 5 inches long and 4 inches wide. What is the area of the game board?

A large empty rectangular box for writing the answer to question 4.



5)

A long hallway is covered with unit square tiles. What is the area?

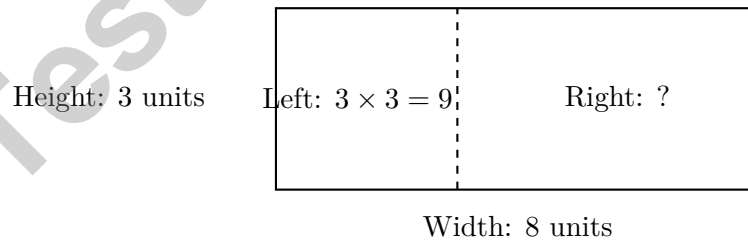
- A. 18 C. 16
 B. 11 D. 92

6) A rectangle is divided into 4 equal parts. What fraction of the rectangle is each part?



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

7) A rectangle shown with a split:



If the total area is 24, what is the right part's area?

- A. 15 square units C. 12 square units
 B. 5 square units D. 8 square units



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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 C is correct.** **(3.MD.B.3)** Divide the total by the scale: $12 \div 2 = 6$ units tall.
- 2) **Choice B is correct.** **(3.NF.A.3b)** The numerator was multiplied by 2 (from 1 to 2). Multiply the denominator by 2: $3 \times 2 = 6$. So $\frac{1}{3} = \frac{2}{6}$.
- 3) **Choice A is correct.** **(3.MD.C.5)** The tile with an area of 9 square inches is smaller than the tile with 16 square inches. Smaller area means less space inside.
- 4) **Choice A is correct.** **(3.NF.A.2a)** The first tick of eight equal parts is at the unit fraction $\frac{1}{8}$.
- 5) **Choice C is correct.** **(3.NBT.A.1)** For 127: to the nearest 10, look at the ones digit ($7 \geq 5$), so it rounds to 130. To the nearest 100, look at the tens digit ($2 < 5$), so it rounds to 100. Both answers are correct for their respective place values.
- 6) **Choice D is correct.** **(3.NBT.A.3)** 7 packs of 10 pencils = $7 \times 10 = 70$ pencils.
- 7) **Choice B is correct.** **(3.MD.B.4)** Total: $2 + 1 + 2 + 2 = 7$ notebooks. Remove 1 with 100 pages: $7 - 1 = 6$ remain.
- 8) **Choice A is correct.** **(3.MD.C.7)** The grid has 8 columns and 5 rows. Area = $8 \times 5 = 40$ square units. You can also add: $8 + 8 + 8 + 8 + 8 = 40$ (five rows of eight).
- 9) **Choice A is correct.** **(3.NF.A.1)** When a whole is divided into 8 equal parts, one part is the unit fraction $\frac{1}{8}$ (one-eighth).
- 10) **Choice D is correct.** **(3.NF.A.3a)** $\frac{2}{6} = \frac{1}{3}$ (one-third). The fraction $\frac{2}{3}$ (two-thirds) is NOT equivalent because they represent different-size regions. Although both have numerator 2, the denominators 6 and 3 divide the whole differently, so $\frac{2}{6} \neq \frac{2}{3}$.
- 11) **Choice D is correct.** **(3.NF.A.2b)** Point Q is at the first tick of 4 equal divisions from 0 to 3. That is $\frac{1}{4}$.
- 12) **Choice A is correct.** **(3.MD.A.2)** 5 g is the smallest (lightest) mass.
- 13) **Choice D is correct.** **(3.NBT.A.2)** Add: $127 + 234 = 361$. Ones: $7 + 4 = 11$ (write 1, carry 1). Tens: $2 + 3 + 1 = 6$. Hundreds: $1 + 2 = 3$.
- 14) **Choices A and C are correct.** **(3.OA.A.2)** In partitive division, we know the number of groups (3 friends, 8 piles) and find the size of each. B is quotitive (measurement) because we know the size (4 cookies per bag) and find the number of bags. D is also quotitive. E is subtraction, not division.
- 15) **Choice D is correct.** **(3.OA.A.4)** From the fact family, $7 \times 6 = 42$.
- 16) **Choice B is correct.** **(3.MD.C.7c)** $(4 \times 6) + (4 \times 2) = 24 + 8 = 32$. Both rectangles share width 4, so the total width is $6 + 2 = 8$.
- 17) **Choice B is correct.** **(3.MD.C.5b)** Count the rows: 2 rows. Count across: 8 unit squares per row. Total: $8 + 8 = 16$ unit squares cover the rectangle.
- 18) **Choice D is correct.** **(3.OA.D.9)** $4 \times 10 = 40$. This is skip counting by 10 four times: 10, 20, 30, 40.
- 19) **Choice C is correct.** **(3.G.A.1)** A trapezoid has exactly one pair of parallel sides. The other quadrilaterals shown have two pairs of parallel sides or other properties.
- 20) **Choice D is correct.** **(3.NF.A.2)** The line is divided into thirds, so $\frac{1}{4}$ is not a tick mark on this particular number line.
- 21) **Choice D is correct.** **(3.OA.A.3)** There are 3 equal groups of 8 marbles. Multiply: $3 \times 8 = 24$ marbles.
- 22) **The correct answer is 12 : 00.** **(3.MD.A.1)** 10 : 45 + 1 hour is 11 : 45, plus 15 minutes is 12 : 00.
- 23) **Choice B is correct.** **(3.NF.A.3c)** 12 sixths divided into groups of 6 sixths (one whole) gives 2 wholes. $12 \div 6 = 2$.
- 24) **The correct answer is 12 unit squares.** **(3.MD.C.5a)** Count rows (3) and columns (4), then multiply: $3 \times 4 = 12$ unit squares.
- 25) **Choice B is correct.** **(3.MD.C.7a)** 5 rows \times 2 columns = $5 \times 2 = 10$ square units. A is sum error.
- 26) **Choice D is correct.** **(3.OA.A.1)** The array shows 3 columns with 4 squares in each column. This means $4 + 4 + 4 = 12$ or $3 \times 4 = 12$.
- 27) **Choice A is correct.** **(3.MD.C.7d)** Top rectangle: $5 \times 4 = 20$ sq ft. Bottom rectangle: $3 \times 2 = 6$ sq ft. Total: $20 + 6 = 26$ sq ft.
- 28) **The correct answer is 15.** **(3.OA.B.5)** $3 \times 5 = 15$.
- 29) **Choice B is correct.** **(3.NF.A.3d)** Comparing the shaded areas: two thirds covers more of the bar than one half does.



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◇ Look what you did! 4 full practice tests. That's hundreds of math problems. You started as a learner. You are now a math athlete. ◇

★ **Champions know:** hard work pays off. You did the hard work. Your math skills are strong because you practiced. ★

Champion's Stats

- **Focus:** HIGH! You stay on task.
- **Speed:** STRONG! You move at the right pace.
- **Accuracy:** SHARP! You catch your own mistakes.
- **Mindset:** CHAMPION! You believe in yourself.

Champion tip: on test day, walk in proud. You trained for this. You are ready!

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

Jay Daie

Your Math Coach

Build Skills. Achieve More.

This book gives **Grade 3** students the focused practice they need to master math concepts with confidence.

What's Inside?



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Questions designed to match Grade 3 math standards.



Variety of Question Types

Build skills with multiple formats and challenges.



Real-World Applications

Engaging problems that connect math to life.



Step-by-Step Progress

Track improvement and see growth over time.



Build Skills & Boost Confidence

Strengthen understanding and perform better.

COVERS ALL ESSENTIAL TOPICS

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- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ Graphing & Data Analysis
- ✓ And More!



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