

3

Ohio OST

GRADE 3

MATH PRACTICE TESTS

Standards-Aligned
Practice for Stronger
Math Skills and
Test Readiness



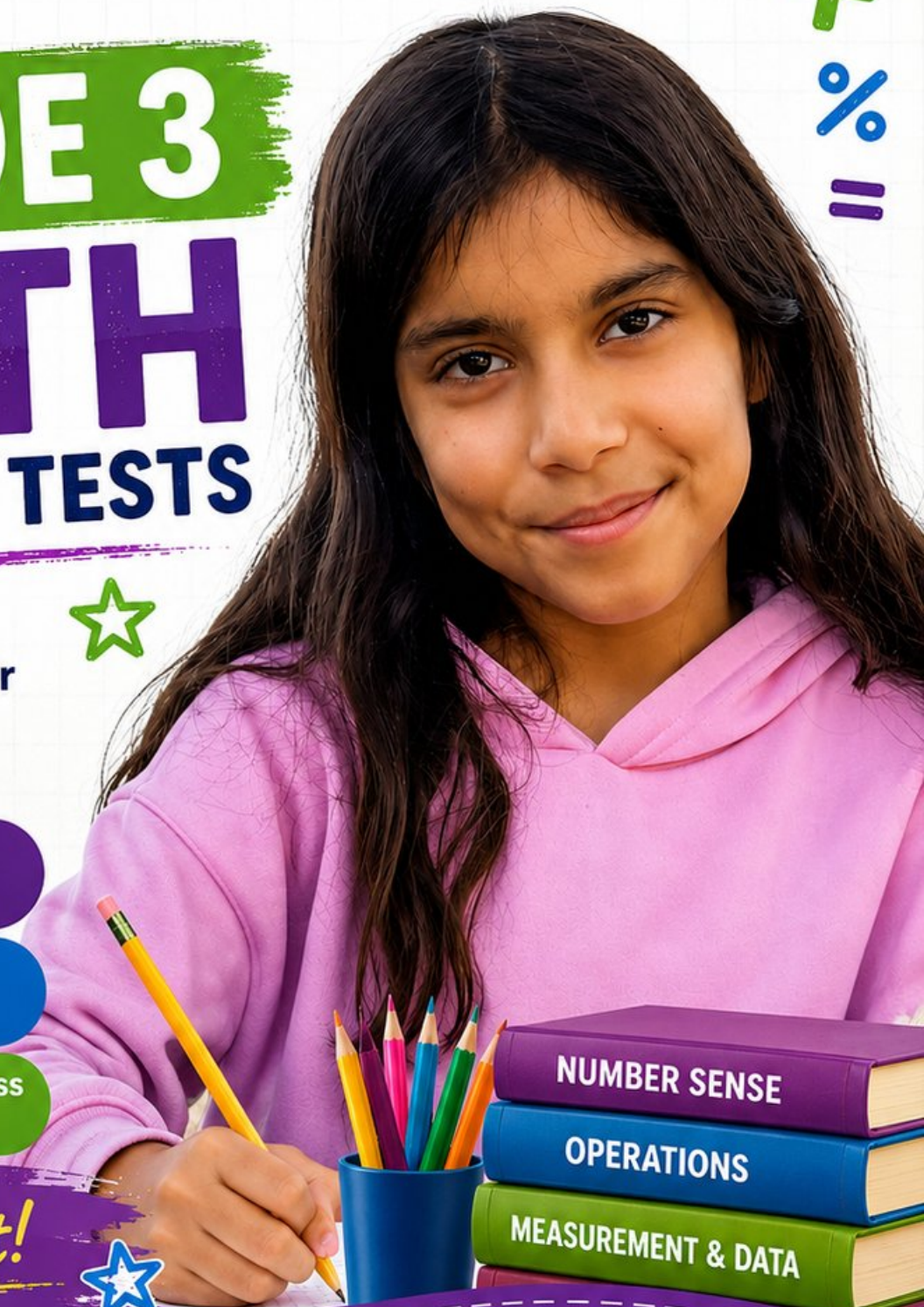
Build Confidence
with Targeted Practice



Strengthen Skills
in Key Math Concepts



Improve Test Readiness
with Realistic Practice



Be Ready.
Do Your Best!



3 Ohio OST Grade 3 Math Practice Tests

Standards-Aligned Practice for Stronger Math Skills and Test Readiness



Three 30-question trail tests packed with Grade 3 review, Ohio OST strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

Jay Daie and Reza Nazari



Copyright ©

Testinar Inc



Published by Testinar Inc

Testinar.com

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law, including Section 107 or 108 of the 1976 United States Copyright Act.

This publication is independently produced and has no official connection to any state, district, or national testing program.

Test names and organizational names used herein are the property of their respective trademark holders.



Copyright ©

Welcome to the Ohio Math Trail

Three tests, one trail, and a stronger Grade 3 thinker at the end



To the Grade 3 Trail Scout

This book is your practice trail for the Ohio OST. You will multiply and divide, read graphs, work with fractions, measure time, find area, and explain your thinking – one trail marker at a time.

Some problems will feel quick, like a clear stretch of wide open trail. Some will ask you to slow down, draw, count, or try again. That slow part is where strong math grows. Every page gives your brain another chance to spot, choose, and build.

Spot

Read carefully and find what the problem is really asking.

Sketch

Use numbers, arrays, number lines, or labels to make your thinking visible.

Signal

Check that your answer makes sense before you wave the next question on.

Trail promise: I will read like a tracker, sketch like a planner, and check like a careful scout. I do not have to be perfect to keep moving forward.

How to Use This Book

A four-step trail plan that turns practice into progress

Step 1: Pack Your Pack

Read the Quick Review first.
Wake up the Grade 3 ideas you will need before you set foot on the trail.

Step 2: Hit the Trail

Take one full test.
Thirty questions. Pencil sharp, work shown, calm pace – one marker at a time.

Step 3: Campfire Check

Check answers honestly.
Circle missed questions. Star any problem that felt confusing – those are tomorrow’s clues.

Step 4: Track Back

Fix a few mistakes.
Read the explanation, rework the problem, and carry that lesson up the next stretch of trail.

A Three-Week Trail Plan

Week 1	Hike Test 1. Map what feels strong and what needs a second look.
Week 2	Hike Test 2. Sharpen the habits: read slow, sketch the model, label every number.
Week 3	Hike Test 3. Bring everything – facts, models, checks, and calm focus.

Best trail habit: Do not only ask, “What did I score?” Ask, “What did I learn how to do better?”



Test Overview

What waits on the trail and what each practice test builds

Each practice test has 30 questions. Together they walk you through the kind of math thinking the Ohio OST asks Grade 3 students to use: read carefully, choose a strategy, show work, and check whether an answer makes sense.

Selected-Response Questions

Pick the best answer from the choices. Strong scouts estimate first, cross out answers that cannot be right, and reread the question before circling.

Open-Ended Questions

Write the answer and show the thinking. A clear response uses neat numbers, helpful labels, and a short model or explanation.

Grade 3 Ideas You Will Meet on the Trail

- multiplication, division, arrays, equal groups, and fact fluency
- rounding, adding, subtracting, and multiplying by multiples of 10
- 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 shapes
- two-step word problems and explaining a solution path

What strong OST work looks like: the scout reads the whole problem, picks a sensible strategy, writes numbers neatly, labels the answer, and checks that the answer truly fits the question.

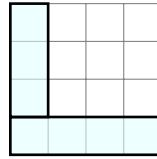


Scan me!
For more practice
& answers

Table of Contents

★ Practice Test 1	_____	17
★ Practice Test 2	_____	29
★ Practice Test 3	_____	41
Practice Test Answer Keys	_____	53
Practice Test Answers and Explanations	_____	56

- 1) This grid shows an L-shaped figure made of unit squares. Count all the unit squares to find the area.



How many unit squares cover this L-shape?

- A. 4 sq units C. 8 sq units
 B. 7 sq units D. 12 sq units
- 2) If a rectangle has a length of 7 units and a width of 5 units, what is the area in square units?

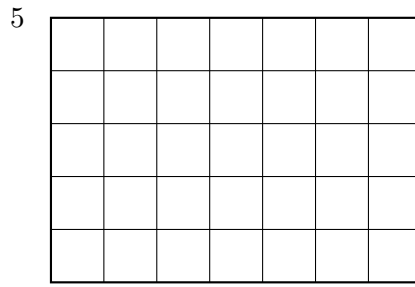


- 3) Which picture shows 3 groups of 4?

- A. ★★ ★★ ★★ ★★ ★★
 B. ★★ ★★ ★★ ★★
 C. ★★ ★★ ★★ ★★ ★★ ★★
 D. ★★ ★★ ★★ ★★ ★★ ★★ ★★



Scan me!
For more practice
& answers



4)

What is the area of this rectangle?

A. 12

C. 35

B. 24

D. 75

5) Which fraction is the same as $\frac{3}{6}$?

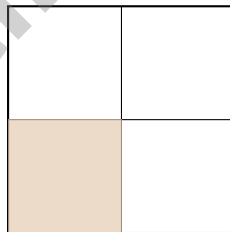
A. $\frac{1}{3}$

C. $\frac{2}{6}$

B. $\frac{1}{2}$

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

6) A square chocolate bar is divided equally into 4 parts. Ben eats $\frac{1}{4}$ of the bar. How many parts does Ben eat?



A. 1 part

C. 3 parts

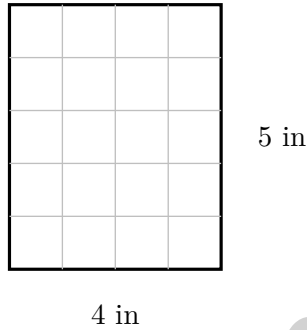
B. 2 parts

D. 4 parts



1) A composite shape has areas given as 20 sq units and 15 sq units. What is the total area?

- A. 5 sq units C. 300 sq units
 B. 35 sq units D. 40 sq units



2)

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

- A. 9 sq in C. 25 sq in
 B. 20 sq in D. 16 sq in

3) A teacher estimates that a water jug holds about 5 liters. A glass holds about 200 mL. ESTIMATE how many glasses would fill the jug.

- A. about 5 glasses C. about 25 glasses
 B. about 15 glasses D. about 50 glasses

4) What is 3×4 ?

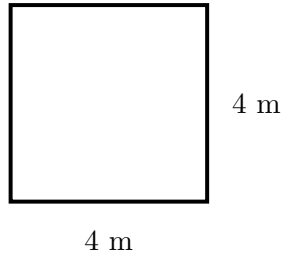


Scan me!
For more practice
& answers

5) Which fraction equals the whole number 3?

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

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



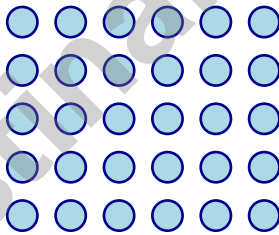
6)

This is a square with side length 4 m. What is its perimeter?

- A. 8 m
 B. 12 m

- C. 16 m
 D. 24 m

7) Look at this array. Count the objects.



5 rows with 6 objects in each row

- A. 25 objects
 B. 28 objects

- C. 30 objects
 D. 36 objects

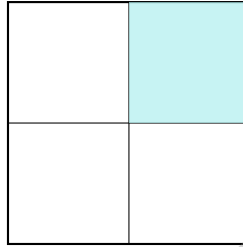


1) A circle is divided into 3 equal slices. One slice is one unit fraction. Which fraction name is correct?

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

- C. $\frac{3}{3}$
 D. $\frac{2}{3}$

2) A rectangle is divided with 1 horizontal and 1 vertical line making 4 equal parts.

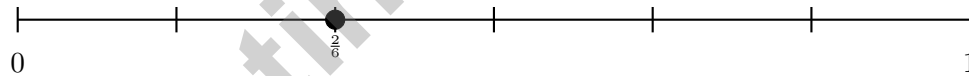


One part is shaded. What fraction is shaded?

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

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

3) On a 6-part number line, $\frac{2}{6}$ is between which two fractions?



- A. Between 0 and $\frac{1}{6}$
 B. Between $\frac{1}{6}$ and $\frac{3}{6}$

- C. Between $\frac{3}{6}$ and $\frac{4}{6}$
 D. Between $\frac{5}{6}$ and 1

4) Lily sees $(3 \times 2) \times 4$. She wants to find the answer using a different grouping. Which equation correctly finds the same product?

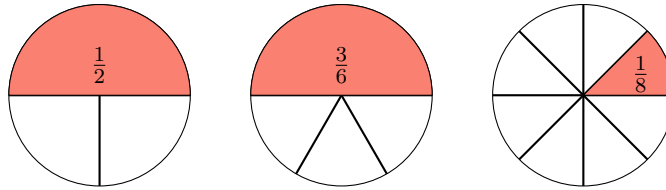
- A. $3 + (2 \times 4) = 11$
 B. $3 \times 2 \times 4 = 9$

- C. $(3 + 2) \times 4 = 20$
 D. $3 \times (2 \times 4) = 24$



Scan me!
For more practice
& answers

5) Look at the pie charts. Which fraction is NOT equivalent to $\frac{1}{2}$?



- A. $\frac{1}{2}$
 C. $\frac{1}{8}$
 B. $\frac{3}{6}$
 D. $\frac{2}{4}$

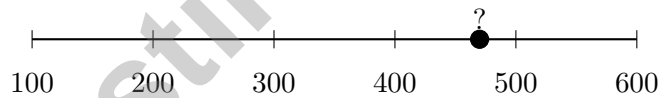
6) Sam is organizing stickers into an array. He makes 8 rows with 5 stickers in each row. How many stickers are in the array?

- A. 35 stickers
 C. 45 stickers
 B. 50 stickers
 D. 40 stickers

7) Ana says $15 \div 3 = 4$. Is she right? Explain.

- A. Yes, she is right.
 C. No, the answer is 12.
 B. No, the answer is 18.
 D. No, the answer is 5.

8)



The number shown is between 400 and 500. Is it closer to 400 or 500?

- A. Closer to 400
 C. Exactly in the middle
 B. Cannot tell
 D. Closer to 500



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 builds stronger math habits.

Testinar.com



Scan me!
For more practice
& answers

Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice B is correct.** **(3.MD.6)** Count the bottom row: 4 squares. Count the left column above: 3 more squares. Total: $4 + 3 = 7$ unit squares.
- The correct answer is 35 square units.** **(3.MD.5)** Multiply length by width: $7 \times 5 = 35$ square units.
- Choice A is correct.** **(3.OA.1)** 3 groups of 4 means three separate groups, each with 4 objects. Choice A shows three groups with 4 stars in each.
- Choice C is correct.** **(3.MD.7a)** $7 \times 5 = 35$ square units.
- Choice B is correct.** **(3.NF.3a)** $\frac{3}{6} = \frac{1}{2}$ because both represent one-half.
- Choice A is correct.** **(3.G.2)** $\frac{1}{4}$ of a bar divided into 4 equal parts is 1 part.
- Choice A is correct.** **(3.NF.3d)** Same numerator (1): both fractions take 1 piece from their bar. But the first bar is divided in half (larger piece), the second in thirds (smaller piece). One half $>$ one third. Visually: the green shaded area is larger in the first bar.
- The correct answer is 56 unit squares.** **(3.MD.5b)** Count the rows: 8 rows. Count across: 7 unit squares per row. Total: $7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 = 56$ unit squares.
- Choice D is correct.** **(3.OA.4)** Divide: $42 \div 6 = 7$ marbles per bag. Check: $6 \times 7 = 42$.
- Choice A is correct.** **(3.OA.8)** Step 1: Find total pencils: $5 \times 6 = 30$. Step 2: Subtract: $30 - 10 = 20$ pencils. (Choice C is the answer to step 1 only—students must complete both steps.)
- Choice D is correct.** **(3.NBT.1)** The ones digit is 2. Since $2 < 5$, round down: 92 rounds to 90.
- Choice A is correct.** **(3.NF.3c)** When numerator = denominator, you have all the parts of one whole. $\frac{4}{4}$ has 4 fourths, which makes 1 whole.
- Choice A is correct.** **(3.NF.3b)** Both rectangles show the same shaded area. $\frac{3}{4} = \frac{6}{8}$ because $\frac{3 \times 2}{4 \times 2} = \frac{6}{8}$.
- Choice A is correct.** **(3.MD.7c)** Total is $8 \times 5 = 40$. One part is $8 \times 3 = 24$. Other part is $40 - 24 = 16$, which is 8×2 .
- Choices B and C are correct.** **(3.MD.8)** Option B: $P = 2(6) + 2(5) = 22$ in. Option C: $P = 2(10) + 2(1) = 22$ in. Option A is 20 in, option D is 18 in, and option E is 24 in.
- Choice A is correct.** **(3.NF.3)** $\frac{1}{3}$ and $\frac{2}{6}$ represent the same amount.
- Choice B is correct.** **(3.NF.2)** $\frac{4}{8}$ and $\frac{2}{4}$ mark the exact same point: the middle of the line. They name the same location.
- Choice D is correct.** **(3.OA.5)** The area model shows a rectangle split into two parts: one part is $3 \times 2 = 6$ and the other is $2 \times 2 = 4$. Using the distributive property: $2 \times (3 + 2) = 2 \times 3 + 2 \times 2 = 6 + 4 = 10$.
- Choice B is correct.** **(3.MD.3)** Red: $6 \times 2 = 12$. Green: $4 \times 2 = 8$. Difference: $12 - 8 = 4$.
- Choice C is correct.** **(3.G.1)** The four corner marks each show a right angle. This shape is a rectangle with 4 right angles.
- Choice B is correct.** **(3.OA.6)** $28 \div 4 = \square$ means $\square \times 4 = 28$. Since $7 \times 4 = 28$, the answer is 7. Option A ($6 \times 4 = 24$) is off-by-one. Option D confuses the divisor with the quotient.
- Choice C is correct.** **(3.MD.4)** Range = max - min = $13 - 12 = 1$ cm.
- Choice D is correct.** **(3.OA.7)** $63 \div 9 = 7$ because $7 \times 9 = 63$. This is related to the multiplication fact.
- Choice B is correct.** **(3.MD.5a)** A unit square always has a side length of 1 unit and area of 1 square unit, so 1 inch by 1 inch gives area 1 square inch.
- Choice C is correct.** **(3.OA.9)** Add 6 each time: $30 + 6 = 36$. This is skip counting by 6.
- The correct answer is $\frac{1}{4}$.** **(3.NF.2a)** Each part has length $\frac{1}{4}$.
- Choice B is correct.** **(3.MD.2)** Subtract: $2000 - 250 = 1750$ g.
- Choice D is correct.** **(3.NBT.2)** Subtract: ones ($2 - 8$ requires regrouping, so $12 - 8 = 4$), tens ($3 - 1 = 2$), hundreds ($5 - 2 = 3$). Answer: 324.
- Choice D is correct.** **(3.OA.3)** Divide: $35 \div 5 = 7$ cards per friend.
- Choice A is correct.** **(3.MD.7b)** Area = length \times width = $6 \times 4 = 24$ square inches.

Hi, Math Detective!

◇ You did such a great job! You finished 3 tests like a real detective. You found the clues, used your tools, and solved the math. ◇

★ **Detectives know:** good work takes time. You took your time. You looked carefully. You found the answers! ★

Your Detective Skills

- **Sharp Eyes:** You notice the small details.
- **Smart Plans:** You pick the right way to solve.
- **Brave Heart:** You try even when it's tricky.
- **Steady Work:** You finish what you start.

Detective tip: on test day, look carefully at each problem. Underline important words. Then solve like the detective you are!

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

Jay Daie

Your Math Detective Helper

Testinar.com

3 GRADE 3 MATH PRACTICE TESTS

Practice Today. *Succeed* Tomorrow!



Give your child the tools to build strong math skills and test confidence!

This book includes 3 full-length Grade 3 Math practice tests that mirror real test formats and cover all key math standards. With a wide range of question types and real-world problems, students will gain the practice and confidence they need to do their best!

What's Inside?



Standards-Aligned Practice

Questions designed to cover essential Grade 3 math standards.



Variety of Question Types

Multiple-choice, short answer, and more to build well-rounded skills.



Real-World Applications

Engaging problems that connect math to everyday life.



Step-by-Step Progress

Track improvement and build confidence with every test.



Build Skills & Boost Confidence

Strengthen understanding and feel prepared for test day.

COVERS ALL ESSENTIAL TOPICS

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



More Grade 3 Math Resources & Practice Materials

testinar.com/math3

PRACTICE. PREPARE. SUCCEED.