

3

Oregon

OSAS

GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned
Practice for Stronger
Math Skills and
Test Readiness



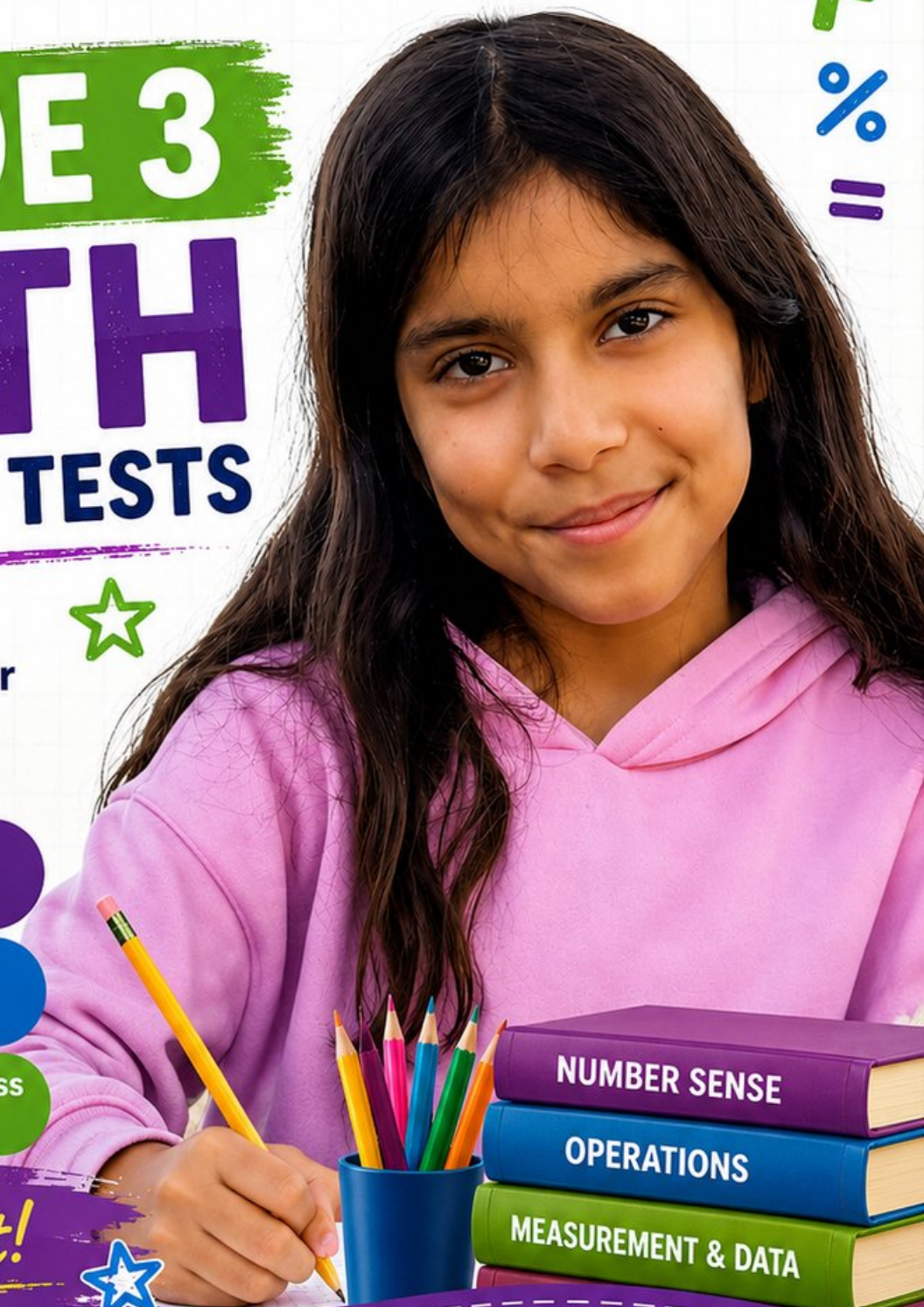
Build Confidence
with Targeted Practice



Strengthen Skills
in Key Math Concepts



Improve Test Readiness
with Realistic Practice

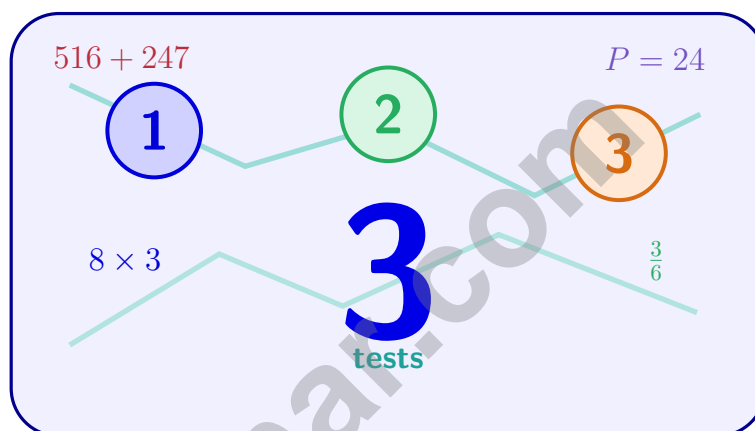


Be Ready.
Do Your Best!



3 Oregon OSAS 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, Oregon OSAS strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

Jay Daie and Reza Nazari



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Welcome to the Oregon 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 Oregon OSAS. 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 Oregon OSAS 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 OSAS 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.



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- 11) The products in the row for 6 are 6, 12, 18, 24, 30, 36, 42, 48. What is 6×8 ? Explain the pattern.

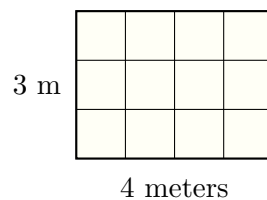
- 12) Noah has a watering can that holds 3 liters. He pours out 1500 mL to water the plants. How many milliliters of water are left in the can?

- A. 1000 mL C. 2000 mL
 B. 1500 mL D. 3000 mL

- 13) A rectangle is split vertically into two smaller rectangles. One is 3×8 and the other is 3×4 . Which statements are true?

- A. The total area is $3 \times (8 + 4) = 36$ square units
 B. The first rectangle has area 25 square units
 C. $(3 \times 8) + (3 \times 4) = 24 + 12 = 36$
 D. The rectangles have different shared dimensions
 E. The combined rectangles can be shown as 3×13

- 14) Sam builds a small garden bed using 1-meter by 1-meter tiles (unit squares). He arranges them in a 4-meter by 3-meter rectangle. How many tiles does he use?



- A. 7 tiles C. 12 tiles
 B. 10 tiles D. 16 tiles





Shape A

1)

How many right angles does this shape have?

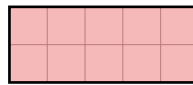
A. 2

C. 4

B. 3

D. 6

2) This rectangle is divided into unit squares.



Which multiplication sentence shows the area?

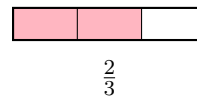
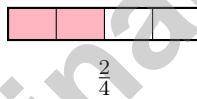
A. $5 \times 2 = 10$

C. $2 \times 2 = 4$

B. $5 \times 5 = 25$

D. $7 \times 2 = 14$

3)



Using the bars, which is larger?

A. $\frac{2}{4}$

C. They are equal

B. $\frac{2}{3}$

D. Cannot tell

4) A garden is arranged in an array with 7 rows and 3 plants in each row. How many plants are in the garden?

A. 21

C. 10

B. 19

D. 24



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



- A. $\frac{1}{2}$
 C. $\frac{1}{4}$
- B. $\frac{2}{4}$
 D. $\frac{3}{4}$
- 6) Ben starts his chores at 3 : 14 PM. He finishes at 3 : 56 PM. How long does Ben do chores?
- A. 38 minutes
 C. 42 minutes
- B. 40 minutes
 D. 45 minutes
- 7) A school library has 456 books. The librarian buys 244 more books. How many books are in the library now?
- A. 700
 C. 690
- B. 701
 D. 711
- 8) Mia has $\frac{4}{2}$ apples. How many whole apples does she have?
- A. 2
 C. 1
- B. 4
 D. $\frac{1}{2}$
- 9) Ben has 72 marbles. He puts them into bags with 8 marbles in each bag. Which division equation can be used to find how many bags he fills?
- A. $72 \div 8 = \square$
 C. $72 - 8 = \square$
- B. $8 \times \square = 72$
 D. $72 + 8 = \square$



1) A library has 137 books. Round this to the nearest 100 to estimate how many books the library has.

A. 100

C. 137

B. 130

D. 200

2) A number line from 0 to 1 is split into 4 equal parts. What is the length of each part?

3) A picture graph shows balloons. Each balloon is 1 balloon. Ty has 7 balloons, Sam has 4 balloons. How many balloons do they have altogether?

A. 3

C. 11

B. 7

D. 12

4) A square has an area of 25 square inches. How long is each side?

A. 5 inches

C. 6 inches

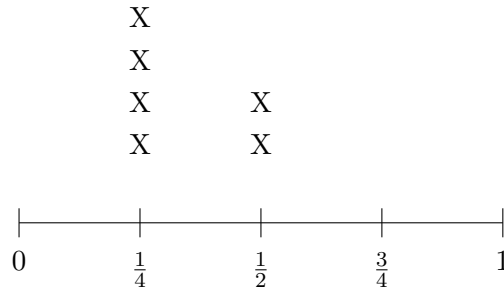
B. 4 inches

D. 12 inches

5) If a number line from 0 to 3 is divided into thirds, how many thirds tall is the entire line?



6) Ava measured rainfall amounts in inches: $0, \frac{1}{4}, \frac{1}{2}, \frac{3}{4}, 1$.



How many more days had $\frac{1}{4}$ inch of rain than $\frac{1}{2}$ inch of rain?

- | | |
|------------------------------------|------------------------------------|
| <input type="checkbox"/> A. 1 day | <input type="checkbox"/> C. 3 days |
| <input type="checkbox"/> B. 2 days | <input type="checkbox"/> D. 4 days |

7) What does the denominator in a unit fraction tell you?

- | | |
|--|---|
| <input type="checkbox"/> A. How many parts are shaded | <input type="checkbox"/> C. The name of the color |
| <input type="checkbox"/> B. How many equal parts the whole is divided into | <input type="checkbox"/> D. How big one part is |



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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 builds stronger math habits.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** (3.OA.A.3) Divide: $24 \div 3 = 8$ pencils per friend.
- 2) **Choice A is correct.** (3.OA.A.2) 3 groups of 4 means three separate groups, each with 4 objects. Choice A shows three groups with 4 stars in each.
- 3) **Choice C is correct.** (3.NF.A.2) $\frac{6}{8}$ is 6 out of 8 equal parts, which is at the sixth tick mark from 0.
- 4) **Choice D is correct.** (3.OA.B.6) The missing factor is 9 because $9 \times 7 = 63$. This is the same as saying $63 \div 7 = 9$.
- 5) **Choice B is correct.** (3.GM.C.6) 8 rows \times 6 tiles per row = 48 square inches.
- 6) **Choice C is correct.** (3.GM.C.5) Count the rows: 3 rows. Count across: 9 unit squares per row. Total: $9 + 9 + 9 = 27$ square units cover the carpet.
- 7) **Choice C is correct.** (3.GM.B.3) $4 : 07 + 18 \text{ min} = 4 : 25 \text{ PM}$.
- 8) **Choice A is correct.** (3.NBT.A.2) Round 456 to 500 and 237 to 200. Estimate: $500 + 200 = 700$. Mia's answer 693 is very close to 700, so it is reasonable. (Exact: $456 + 237 = 693$ is correct.)
- 9) **Choice D is correct.** (3.OA.A.2) The number line shows jumps of 2 from 0 to 10. There are 5 jumps, so it represents $10 \div 2 = 5$.
- 10) **Choice A is correct.** (3.NF.A.3) The bars show the same shaded amount. $\frac{2}{8}$ and $\frac{1}{4}$ are equivalent.
- 11) **The correct answer is 48.** (3.OA.D.9) The row for 6 increases by 6 each time because we multiply 6 by 1, 2, 3, 4, etc. So $6 + 6 = 12$, then $12 + 6 = 18$. The eighth product is 48, so $6 \times 8 = 48$.
- 12) **Choice B is correct.** (3.GM.B.4) 3 L = 3000 mL. Subtract: $3000 - 1500 = 1500 \text{ mL}$.
- 13) **Choices A and C are correct.** (3.GM.A.2) A and C are both correct: they show the total area of 36 using the distributive property. B is false because $3 \times 8 = 24$, not 25. D is false because the rectangles share the dimension 3. E is false because $3 \times 13 = 39$.
- 14) **Choice C is correct.** (3.GM.C.6) Area = length \times width = $4 \text{ m} \times 3 \text{ m} = 12$ unit squares.
- 15) **Choice D is correct.** (3.OA.A.4) Area = length \times width = $10 \times 3 = 30$ square feet.
- 16) **Choice D is correct.** (3.DR.B.2) At $5\frac{1}{2}$, there are zero X's. All other values have at least one X.
- 17) **Choice B is correct.** (3.NF.A.3) Same numerator: fourths are bigger pieces than sixths. Two fourths is greater than two sixths.
- 18) **Choice C is correct.** (3.OA.C.7) The order does not matter in multiplication. $7 \times 8 = 56$ and $8 \times 7 = 56$.
- 19) **The correct answer is 4 books.** (3.DR.B.2) Maya: $7 \times 2 = 14$. Leo: $5 \times 2 = 10$. Fewer: $14 - 10 = 4$.
- 20) **Choice A is correct.** (3.GM.A.2) One shaded column out of four equal columns is $\frac{1}{4}$.
- 21) **Choice A is correct.** (3.GM.C.5) Add the areas: $18 + 11 = 29$ square units. Choice B (only one part) and C (subtraction) are common errors.
- 22) **Choice D is correct.** (3.NF.A.2) Exactly 4 copies of $\frac{1}{4}$ fit in the interval from 0 to 1.
- 23) **Choice C is correct.** (3.GM.C.7) Adding the width 3 four times: $3 + 3 + 3 + 3 = 12$. This is the same as $4 \times 3 = 12$ square units.
- 24) **The correct answer is 5.** (3.OA.A.4) Divide: $40 \div 8 = 5$ pencils per student.
- 25) **Choice D is correct.** (3.GM.D.8) $P = 2(7) + 2(3) = 14 + 6 = 20$ units.
- 26) **Choice A is correct.** (3.GM.A.2) The circle is divided into 2 equal parts. One part is shaded, so the unit fraction is $\frac{1}{2}$ (one-half).
- 27) **Choice B is correct.** (3.NBT.A.3) $4 \times 70 = 4 \times 7 \times 10 = 28 \times 10 = 280$. Marcus added two zeros instead of one.
- 28) **Choice B is correct.** (3.GM.C.5) $6 \times 9 = 54$ tiles. Larger product.
- 29) **Choice A is correct.** (3.NF.A.2) Four hops of $\frac{1}{4}$ each = $4 \times \frac{1}{4} = 1$. The frog lands at 1.
- 30) **Choice A is correct.** (3.NF.A.3) Both strips show the same amount shaded. $\frac{2}{4} = \frac{1}{2}$ because $\frac{1 \times 2}{2 \times 2} = \frac{2}{4}$.

Practice Test 2 Answers and Explanations



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Cheer Squad Final Pep Talk

Hi, Math Star!

◇ 3 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 3 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.

Jay Daie

Your Math Cheerleader

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?



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Questions designed to cover essential Grade 3 math standards.



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Track improvement and build confidence with every test.



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