

3

Wyoming

WY TOPP

GRADE 3

MATH

PRACTICE TESTS

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Standards-Aligned
Practice for Stronger
Math Skills and
Test Readiness



Build Confidence
with Targeted Practice

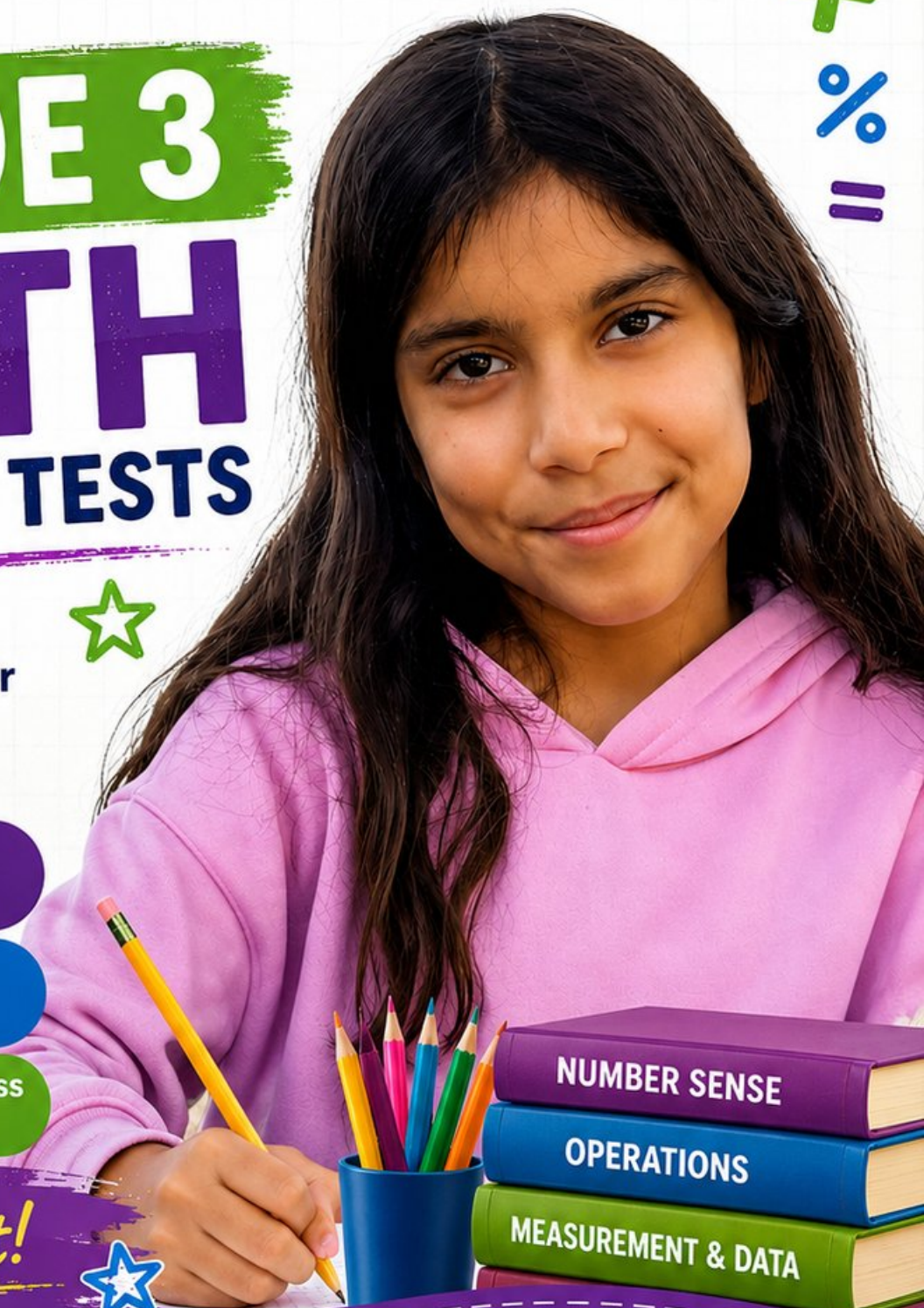


Strengthen Skills
in Key Math Concepts



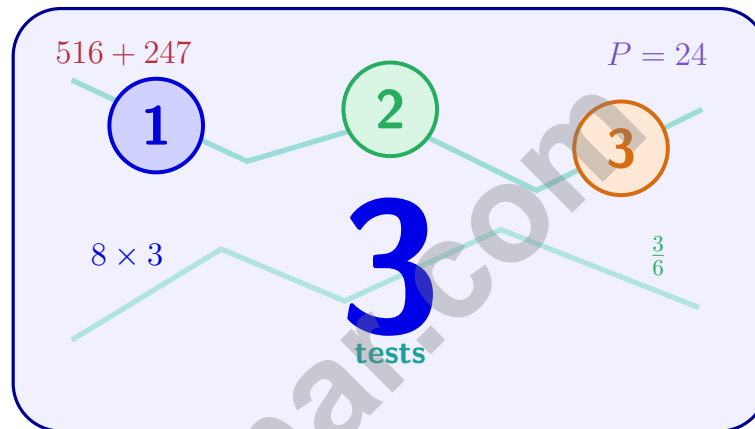
Improve Test Readiness
with Realistic Practice

Be Ready.
Do Your Best!



3 Wyoming WY-TOPP 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, Wyoming WY-TOPP 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 Wyoming 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 Wyoming WY-TOPP. 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 Wyoming WY-TOPP 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 WY-TOPP 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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Table of Contents

★ Practice Test 1	_____	17
★ Practice Test 2	_____	29
★ Practice Test 3	_____	41
Practice Test Answer Keys	_____	54
Practice Test Answers and Explanations	_____	57

1) Which equation matches the tiling shown by a rectangle with one line cutting it vertically into two parts?

A. $7 \times (3 + 2) = (7 \times 3) + (7 \times 2)$

C. $7 + 3 + 2 = 12$

B. $3 \times 2 = 6$

D. $(3 \times 7) + (2 \times 7) = 35 + 14$

2) Which time is the same as 11 : 48?

 A. 12 minutes before noon

 C. 12 minutes after 11

 B. 48 minutes past 11

 D. 11 hours and 48 seconds

3) A rectangle has a length of 5 meters and a width of 2 meters. Find the area.

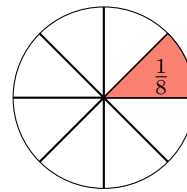
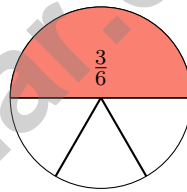
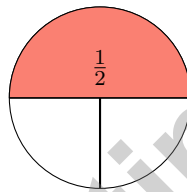
 A. 7 sq meters

 C. 14 sq meters

 B. 10 sq meters

 D. 25 sq meters

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

5) What is $28 \div 4$?

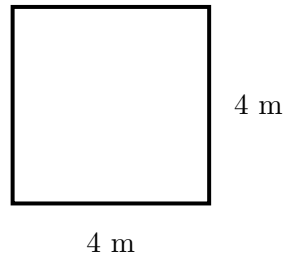
 A. 6

 C. 8

 B. 7

 D. 4


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6)

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

 A. 8 m C. 16 m B. 12 m D. 24 m

7) Eli has a rectangle divided into 4 equal parts. What is the denominator of the unit fraction for one part?

 A. 1 C. 4 B. 3 D. 5

8) A library has 8 shelves with 7 books on each shelf. They add 6 more books. Which of these is the correct total?

 A. $8 + 7 + 6 = 21$ C. $8 + 7 \times 6 = 50$ B. $8 \times 7 \times 6 = 336$ D. $(8 \times 7) + 6 = 62$

9) Write a fraction with numerator 3 that is larger than $\frac{3}{8}$.



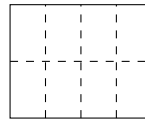
10)



Which sides in this quadrilateral appear to be parallel?

- A. Only the red sides C. Both the red and blue sides
 B. Only the blue sides D. No sides are parallel

11)



This rectangle is divided into equal parts. What multiplication sentence shows this?

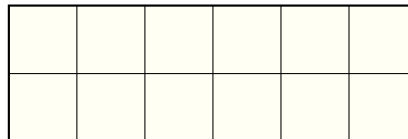
- A. $2 \times 2 = 4$ C. $5 \times 2 = 10$
 B. $3 \times 2 = 6$ D. $4 \times 2 = 8$

12) Look at the area models. $\frac{1}{3} = \frac{2}{?}$. What is the missing denominator?



- A. 4 C. 8
 B. 6 D. 10

13)



How many unit squares are in this rectangle?



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1) Mia computed $456 + 237$ and got 693. Is her answer reasonable? Explain by rounding to the nearest hundred.

- A. Yes; $500 + 200 = 700$, which is close to 693
 B. No; $500 + 200 = 700$, but she wrote 693
 C. Yes; the exact answer is 693
 D. No; $400 + 300 = 700$, but she wrote 693

2) A line plot shows rainfall amounts in inches: $1, 1\frac{1}{4}, 1\frac{1}{2}, 1\frac{3}{4}, 2$. If there are 2 days with 1 inch, 3 days with $1\frac{1}{4}$ inches, 2 days with $1\frac{1}{2}$ inches, and 1 day with $1\frac{3}{4}$ inches, how many days had 2 inches if the total is 10 days?

- A. 1
 B. 2
 C. 3
 D. 4

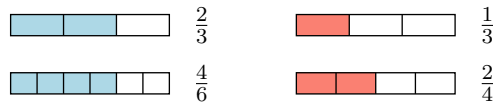
3) A number line from 0 to 1 is split into 8 equal parts. Mark where $\frac{1}{8}$ is located.



Which tick mark shows $\frac{1}{8}$?

- A. The second tick
 B. The first tick
 C. The middle tick
 D. The last tick

4) Which two fraction bars show equivalent fractions?



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



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5) In a soccer game, Team A scores 4 goals in the first half and 5 goals in the second half. Team B scores 6 goals total. Let g be how many more goals Team A scored. Which equation is correct?

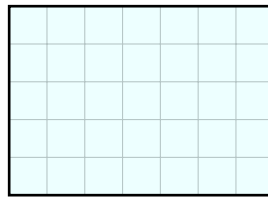
A. $g = (4 + 5) - 6$

C. $g = 4 + (5 - 6)$

B. $g = 4 + 5 - 6$

D. $g = 4 + 5 + 6$

6) This grid shows a rectangle.



What is the area in square units?

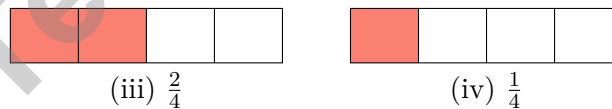
A. 25 sq units

C. 35 sq units

B. 30 sq units

D. 40 sq units

7) Which visual pair shows equivalent fractions?



A. (i) and (ii)

C. (i) and (iii)

B. (ii) and (iii)

D. (iii) and (iv)



5) A container holds 6 liters of oil. The recipe uses 2 liters. How many liters are left?

A. 2 L

C. 6 L

B. 4 L

D. 8 L

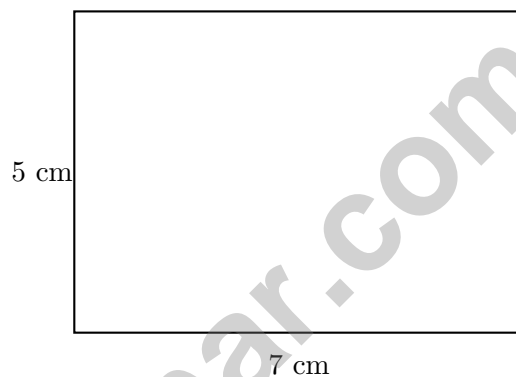
6) Noah colors $\frac{2}{6}$ of a page. His friend colors $\frac{1}{3}$ of an identical page. Do they color the same amount?

A. The pages might be different.

C. Yes, same amount.

B. No, his friend colors more.

D. No, Noah colors more.



7)

Find the area of the rectangle shown above.



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

- Choice A is correct.** **(3.MD.I.7C)** A vertical line in a rectangle splits its width or length. Here the length is 7 and the other dimension splits into $3 + 2$.
- Choice A is correct.** **(3.MD.G.1)** 11 : 48 is 12 minutes before 12 : 00 (noon). Both describe the same time. Distractor B is true but doesn't match the goal; C is false ($11 + 12 \text{ min} = 11 : 12$).
- Choice B is correct.** **(3.MD.I.7)** Area = $5 \times 2 = 10$ square meters. This is 5 rows of 2 unit squares (or $2 + 2 + 2 + 2 + 2 = 10$).
- Choice C is correct.** **(3.NF.F.3)** $\frac{1}{2}$, $\frac{3}{6}$, and $\frac{2}{4}$ are all equivalent. $\frac{1}{8}$ is much smaller and not equivalent.
- Choice B is correct.** **(3.OA.B.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.J.8)** A square has 4 equal sides. $P = 4 + 4 + 4 + 4 = 16$ m.
- Choice C is correct.** **(3.NF.F.1)** The denominator equals the total number of equal parts. A rectangle with 4 equal parts has a denominator of 4, so one part is $\frac{1}{4}$.
- Choice D is correct.** **(3.OA.D.8B)** Multiply shelves by books per shelf: $8 \times 7 = 56$ books. Add new books: $56 + 6 = 62$ books total.
- The correct answer is $\frac{3}{6}$.** **(3.NF.F.3D)** With the same numerator, a smaller denominator makes a larger fraction.
- Choice C is correct.** **(3.G.K.1)** The red sides (top and bottom) appear parallel to each other, and the blue sides (left and right) appear parallel to each other. This is a parallelogram.
- Choice D is correct.** **(3.OA.A.1)** The rectangle has 4 columns and 2 rows of equal parts. So $4 \times 2 = 8$ parts in total.
- Choice B is correct.** **(3.NF.F.3B)** The numerator was multiplied by 2 (from 1 to 2). Multiply the denominator by 2: $3 \times 2 = 6$. So $\frac{1}{3} = \frac{2}{6}$.
- The correct answer is 12 unit squares.** **(3.MD.I.6)** The rectangle is 6 units wide and 2 units tall: $6 \times 2 = 12$ unit squares.
- Choice D is correct.** **(3.NF.F.2)** The line from 0 to 2 is cut into 4 equal steps, so each step is $\frac{1}{2}$. The third tick is $1\frac{1}{2}$.
- Choices A and C are correct.** **(3.NBT.E.2)** Check each: A is $600 - 300 = 300$, B is $450 - 140 = 310$, C is $725 - 425 = 300$, D is $512 - 211 = 301$, and E is $800 - 450 = 350$. The two differences that equal 300 are A and C.
- Choice A is correct.** **(3.MD.I.5)** $5 \times 5 = 25$ unit square tiles.
- Choice B is correct.** **(3.NF.F.3C)** Any whole number n equals $\frac{n}{1}$. So $6 = \frac{6}{1}$.
- Choice C is correct.** **(3.MD.I.7A)** $7 \times 5 = 35$ square units.
- The correct answer is about 5 cups.** **(3.MD.G.2)** Divide: $1000 \div 200 = 5$ cups. Estimation practice aligned to 3.MD.A.2.
- Choice C is correct.** **(3.MD.I.5)** $3 \times 5 = 15$ square units, not 16. The others work: $4 \times 4 = 16$, $2 \times 8 = 16$, $1 \times 16 = 16$.
- Choice A is correct.** **(3.OA.A.4)** If $72 \div 8 = 9$, then 8×9 must equal 72.
- Choice B is correct.** **(3.G.K.2)** Bottom: $7 \times 3 = 21$ sq ft. Top: $3 \times 2 = 6$ sq ft. Total: $21 + 6 = 27$ sq ft.
- Choice C is correct.** **(3.NBT.E.1)** Numbers from 350 to 449 round to 400. The number 449 has tens $4 < 5$, so it rounds down to 400.
- Choice D is correct.** **(3.OA.C.7)** $42 \div 6 = 7$ because $7 \times 6 = 42$.
- Choice B is correct.** **(3.MD.H.3)** Class A: $5 \times 10 = 50$. Class B: $3 \times 10 = 30$. Difference: $50 - 30 = 20$.
- Choice A is correct.** **(3.G.K.2)** If 3 out of 4 parts are shaded, then 1 part is not shaded, which is $\frac{1}{4}$.
- Choice A is correct.** **(3.OA.D.9)** The pattern shows 1, 2, 3, 4, so the next number is 5.
- Choice D is correct.** **(3.NF.F.1)** $14 \div 2$ means measuring: How many groups of 2 fit in 14? The answer is 7 groups. This is measurement division (also called quotitive division).
- Choice D is correct.** **(3.OA.B.5)** 4 boxes with 5 markers in each is $4 \times 5 = 20$ markers total.
- Choice D is correct.** **(3.NBT.E.3)** Skip count by 10s: 10, 20, 30. There are 3 groups of 10 stars, so $3 \times 10 = 30$ stars total.



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Hi, Math Family Member,

◇ Welcome to a special note from your math family. You finished 3 full practice tests, and that hard work matters more than any score. We see you. We are proud of you. ◇

★ **Our math family knows:** math is a journey. You have taken many steps already. The test is just one stop. Every skill you built is yours forever. ★

What Your Math Family Sees

- **Hard Work:** You keep showing up.
- **Real Growth:** You can do problems today you couldn't before.
- **Brave Heart:** You face hard problems with brave thinking.
- **Bright Future:** Your math journey is just beginning.

Family tip: on test day, picture us standing behind you, smiling and rooting for you. You are not alone. Your math family is with you!

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

Jay Daie

Your Math Family

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3 GRADE 3 MATH PRACTICE TESTS

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