

4

Wyoming WY TOPP

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 Wyoming WY-TOPP 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 Wyoming 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 Wyoming WY-TOPP. 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.

Wyoming has open ranges, geyser paths, and mountain views that reward careful observation. 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 Wyoming WY-TOPP: 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

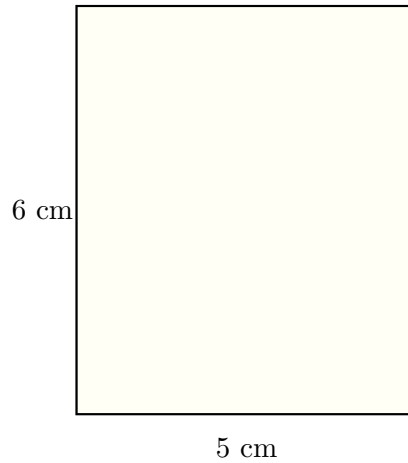
What strong WY-TOPP work looks like: the answer matches the question, the units make sense, and the work is clear enough to check.



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1)

A rectangular notebook is 5 centimeters wide and 6 centimeters tall. Find the area.

- A. 11 sq cm C. 22 sq cm
 B. 30 sq cm D. 60 sq cm

2) A rectangle is 8 units long and 12 units wide. If split into two rectangles with the same length of 8, and widths of 7 and 5, which is correct?

- A. $8 \times (7 + 5) = 8 \times 12 = 96$ square units D. $(8 \times 7) + (8 \times 5) = 56 + 40 = 96$ square units
 B. $8 + 12 = 20$ units
 C. $7 + 5 = 13$ units

3) A line plot shows book weights in ounces: 8, $8\frac{1}{2}$, 9, $9\frac{1}{2}$, 10. Count from the plot shows 1 X at 8 oz, 2 at $8\frac{1}{2}$ oz, 3 at 9 oz, 2 at $9\frac{1}{2}$ oz, and 2 at 10 oz. What is the range?

- A. 1 ounce C. 2 ounces
 B. $1\frac{1}{2}$ ounces D. $2\frac{1}{2}$ ounces



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4) Which does NOT equal 6×3 ?

A. 3×6

C. $6 \times 2 + 6 \times 1$

B. $6 \times (2 + 1)$

D. $4 \times 3 + 2$

5) What is $367 + ? = 650$? Find the missing addend.

A. 283

C. 293

B. 273

D. 382

6) Lily sees a number line divided into sixths. She marks $\frac{6}{6}$. Where is her mark?

A. At 0

C. At 1

B. Beyond 6

D. At 6

7) A soup recipe needs 2000 mL of broth. Ben has 1500 mL. How much more broth does he need?

A. 400 mL

C. 1000 mL

B. 500 mL

D. 1500 mL

8) Eli covers a rectangle with unit tiles. It is 9 tiles long and 3 tiles wide. What is the area?



9) Which number is missing in the fact family: 6, 7, ___?

A. 13

C. 49

B. 36

D. 42



3 meters



6 meters

1)

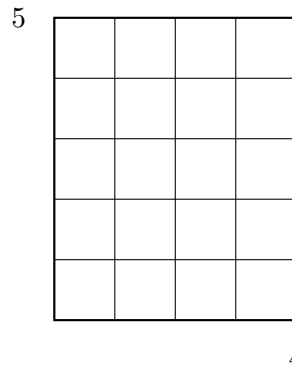
A rectangular pool is 6 meters long and 3 meters wide. Find its area.

 A. 9 sq m C. 15 sq m B. 36 sq m D. 18 sq m

2) Eli has 24 marbles. He makes 6 equal piles. How many marbles are in each pile?

 A. 3 C. 5 B. 6 D. 43) A rectangle is covered with 4 rows of 5 unit squares. What is the area? You can count by rows: $5 + 5 + 5 + 5$. A. 5 sq units C. 20 sq units B. 9 sq units D. 25 sq units

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4)

Count all the unit squares. What is the area?

A. 9

C. 20

B. 18

D. 40

5) A classroom has 3 tables. Each table has 9 chairs. How many chairs are there altogether?

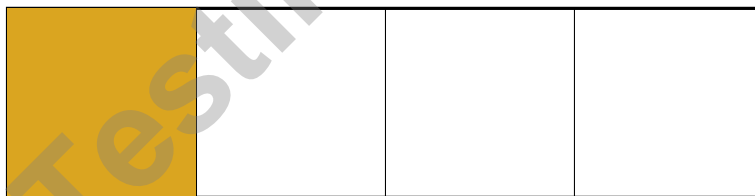
A. $9 - 3 = 6$

C. $9 \times 9 = 81$

B. $3 + 9 = 12$

D. $3 \times 9 = 27$

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



What fraction is shaded?

A. $\frac{1}{4}$

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

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

D. $\frac{1}{5}$



1) Which expression uses the associative property to regroup $4 \times (3 \times 2)$ without changing the order of the factors?

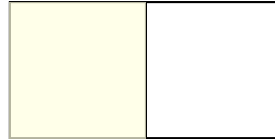
A. $4 + (3 \times 2)$

C. $(4 \times 2) \times 3$

B. $(4 \times 3) + 2$

D. $(4 \times 3) \times 2$

2) Here is a rectangle divided into 2 equal halves by a vertical line.



The shaded part is what fraction of the rectangle?

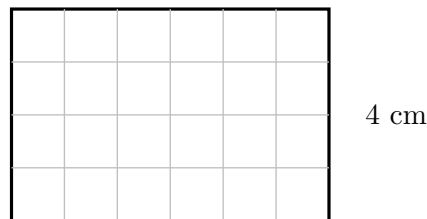
A. $\frac{1}{4}$

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

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

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

3) Find $30 \div 5$.



4)

6 cm

Count the unit squares in the grid. What is the area?

A. 10 sq cm

C. 24 sq cm

B. 20 sq cm

D. 36 sq cm



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5) Round 158 to the nearest 100.

- A. 100 C. 158
 B. 150 D. 200

6) Sam tiles a rectangle that is 4 tiles long and 3 tiles wide. How many tiles does he use in all?

- A. 7 C. 14
 B. 12 D. 24

7) Which bar shows 3 wholes using the fraction $\frac{6}{2}$?



- A. Yes, it shows 3 wholes C. No, it shows 6 wholes
 B. No, it shows 2 wholes D. No, it shows 1 whole
- 8) A quadrilateral has 4 equal sides but does NOT have 4 right angles. Why is this NOT a square?

- A. Because it does not have enough sides C. Because it is not a rhombus
 B. Because it does not have 4 right angles D. Because it has no parallel sides

9) 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 C. 3
 B. 2 D. 8

10) Noah has 28 flowers. He puts them equally into 4 vases. How many flowers are in each vase?

- A. 6 C. 24
 B. 32 D. 7



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.MD.C.7b)** Area = width \times height = $5 \times 6 = 30$ square centimeters.
- 2) **Choice A is correct.** **(3.MD.C.7c)** The distributive property is shown as $8 \times (7 + 5) = (8 \times 7) + (8 \times 5) = 56 + 40 = 96$.
- 3) **Choice C is correct.** **(3.MD.B.4)** Range = maximum - minimum = $10 - 8 = 2$ ounces.
- 4) **Choice D is correct.** **(3.OA.B.5)** $6 \times 3 = 18$. Options A, B, and C all equal 18. But $4 \times 3 + 2 = 12 + 2 = 14$, which does not equal 18.
- 5) **Choice A is correct.** **(3.NBT.A.2)** Subtract to find the missing addend: $650 - 367 = 283$. Check: $367 + 283 = 650$.
- 6) **Choice C is correct.** **(3.NF.A.2b)** $\frac{6}{6}$ means six sixths, which make one whole. The point is at 1.
- 7) **Choice B is correct.** **(3.MD.A.2)** Subtract: $2000 - 1500 = 500$ mL.
- 8) **The correct answer is 27 square units.** **(3.MD.C.7a)** $9 \times 3 = 27$ square units. That means 27 unit tiles cover the rectangle.
- 9) **Choice D is correct.** **(3.OA.B.6)** The missing number is the product: $6 \times 7 = 42$. This fact family contains $6 \times 7 = 42$, $7 \times 6 = 42$, $42 \div 6 = 7$, and $42 \div 7 = 6$.
- 10) **Choice C is correct.** **(3.MD.C.7d)** Bottom rectangle: $4 \times 3 = 12$ sq units. Top rectangle: $2 \times 2 = 4$ sq units. Total: $12 + 4 = 16$ sq units.
- 11) **Choice D is correct.** **(3.OA.D.9)** Multiplying any number by 2 gives an even result, because $2 \times n$ means n groups of 2, and 2 is even. This pattern always holds: even \times any number = even.
- 12) **Choice D is correct.** **(3.OA.A.2)** $12 \div 2 = 6$. The 12 cars are shared equally into 2 rows.
- 13) **Choices B and C are correct.** **(3.MD.D.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.
- 14) **Choice B is correct.** **(3.MD.C.7)** Area = $10 \times 2 = 20$ square meters.
- 15) **The correct answer is 36.** **(3.OA.A.1)** $9 \times 4 = 36$.
- 16) **Choice C is correct.** **(3.NF.A.2a)** Eighths are small pieces, so $\frac{1}{8}$ is close to 0 compared to halves or thirds.
- 17) **Choice B is correct.** **(3.MD.B.3)** $5 \times 2 = 10$ minutes.
- 18) **Choice A is correct.** **(3.NF.A.3d)** Three halves equals 1.5 (greater than one whole). Three thirds equals 1 (exactly one whole). So $\frac{3}{2} > \frac{3}{3}$.
- 19) **Choice C is correct.** **(3.MD.A.1)** $6 : 19 + 26 \text{ min} = 6 : 45 \text{ PM}$.
- 20) **Choice A is correct.** **(3.MD.C.6)** Area = $8 \times 4 = 32$ square centimeters.
- 21) **Choice B is correct.** **(3.MD.C.5)** Rectangle A: $5 \times 1 = 5$ square units. Rectangle B: $2 \times 4 = 8$ square units. Both have perimeter 12, but different areas. Area and perimeter are independent.
- 22) **Choice A is correct.** **(3.OA.A.3)** Multiply: 4 tables \times 7 students per table = 28 students.
- 23) **Choice C is correct.** **(3.MD.C.5a)** The grid is 2 units wide and 4 units tall: $2 \times 4 = 8$ unit squares = 8 square units.
- 24) **Choice A is correct.** **(3.OA.A.4)** We can check: $7 \times 8 = 56$. Sam is correct.
- 25) **The correct answer is 8.** **(3.OA.C.7)** $72 \div 9 = 8$.
- 26) **Choice B is correct.** **(3.G.A.2)** Two horizontal and two vertical lines create 6 equal parts, not 4.
- 27) **Choice B is correct.** **(3.G.A.1)** A rectangle has two pairs of opposite equal sides: one pair of long sides and one pair of short sides.
- 28) **Choice A is correct.** **(3.NF.A.3a)** $\frac{4}{8} = \frac{1}{2}$. Both represent one-half of the wall.
- 29) **Choice B is correct.** **(3.NF.A.2)** The dot on Line A is at $\frac{1}{2}$. The dot on Line B is at $\frac{2}{4}$, which equals $\frac{1}{2}$. Both mark the same location.
- 30) **Choice C is correct.** **(3.MD.C.5b)** Count the rows: 3 rows. Count across: 5 unit squares in each row. Total: $5 + 5 + 5 = 15$ unit squares cover the rectangle.

Practice Test 2 Answers and Explanations



Notes From Your Math Builder

Hi, Math Builder!

◇ Through 4 practice tests, you built your math house brick by brick. The walls are strong. The roof is on. You are ready for anything test day brings. ◇

★ **Builders know:** good plans make strong houses. You learned to plan, then build. That helps with any problem. ★

Builder's Tools

- **Foundation:** ROCK SOLID. Math facts are in place.
- **Frame:** STRONG. You can break problems into parts.
- **Walls:** TIDY. Your work is neat and clear.
- **Roof:** DONE. You always answer the question.

Builder tip: on test day, build each answer like a tiny house. Read first. Plan next. Do the math. Then check!

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

Jay Daie

Your Math Builder

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