

4

Oklahoma OSTP

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 Oklahoma OSTP 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 Oklahoma 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 Oklahoma OSTP. 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.

Oklahoma has red dirt roads, prairie skies, and storm-ready habits that value preparation. 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 Oklahoma OSTP: 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 OSTP work looks like: the answer matches the question, the units make sense, and the work is clear enough to check.



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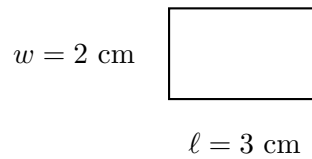
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7) Which of the following can be measured in square centimeters?

- A. The surface of a sheet of paper C. The length of a desk
 B. The height of a pencil D. The thickness of a book

Shape S



8)

Shape S is a rectangle with length 3 cm and width 2 cm. How many pairs of equal sides does it have?

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

9) On a number line from 0 to 1 divided into 4 equal parts, how many unit fractions $\frac{1}{4}$ fit between 0 and the second tick?

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

10) A bell rings at 1 : 16 PM. What time will it be 29 minutes later?

- A. 1 : 35 PM C. 2 : 00 PM
 B. 1 : 45 PM D. 1 : 40 PM



- 11) Ben has a number line divided into sixths. He skip-counts by unit sixths: $0, \frac{1}{6}, \frac{2}{6}, \frac{3}{6}, \frac{4}{6}, \frac{5}{6}, \frac{6}{6}, \dots$
Which number is $\frac{6}{6}$?

A. $\frac{1}{6}$
 B. 0

C. 1
 D. 6

- 12) A rectangle is divided into 3 equal parts. Two parts are shaded. What fraction of the rectangle is NOT shaded?



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

C. $\frac{3}{3}$
 D. $\frac{1}{2}$

- 13) Write one multiplication equation for an array with 3 rows and 6 columns.

- 14) If a whole is divided into 4 equal parts, what is each part called?

A. One-half
 B. One-third

C. One-fourth
 D. One-eighth

- 15) Noah has 3 groups of stickers. Each group has 4 red and 3 blue stickers. Which expanded equation finds the total?

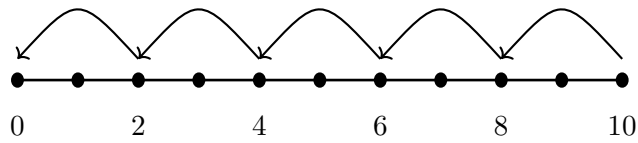
A. $3 \times (4 + 3) = 21$
 B. $3 \times 4 = 12$

C. $3 + 4 + 3 = 10$
 D. $3 \times 4 + 3 \times 3 = 21$



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1) Which number sentence is shown by the repeated subtraction on the number line?



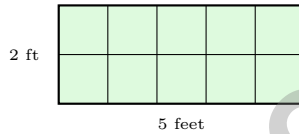
A. $10 \div 2 = 5$

C. $10 - 2 = 8$

B. $10 \div 5 = 2$

D. $2 \times 5 = 10$

2) A unit square measures 1 foot by 1 foot. Which rectangle requires exactly 10 unit squares to cover it?



A. 2 feet by 5 feet

C. 2 feet by 4 feet

B. 3 feet by 3 feet

D. 3 feet by 2 feet

3) A sheet of paper is folded to make 2 equal halves. What unit fraction is one half?

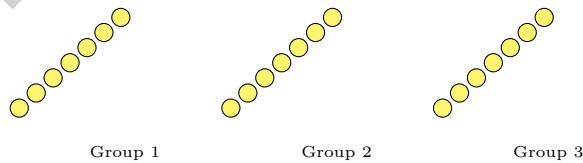
A. $\frac{1}{3}$

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

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

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

4) A farmer has 3 groups of chickens with 7 chickens in each group. He sells 6 chickens. How many chickens does the farmer have left?



A. 12

C. 21

B. 27

D. 15

5) Look at the rows in a multiplication table:

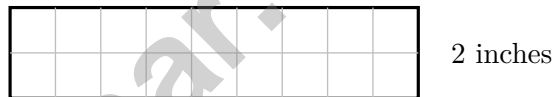
×	1	2	3	4
3	3	6	9	12
4	4	8	12	16

What increases by 3 in the row for 3?

- A. The multiplier on the top C. The column number
 B. The table title D. The product each time

6) Ava has 3 bags of marbles. Each bag has 7 marbles. How many marbles does Ava have altogether?

- A. 10 C. 28
 B. 20 D. 21



7) 9 inches

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

- A. 11 sq in C. 18 sq in
 B. 20 sq in D. 36 sq in

8) Round 614 to the nearest 100. What is the answer?



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6) A farmer has 56 eggs. She packs them into cartons with 8 eggs in each carton. How many cartons does she fill?

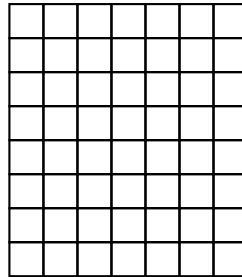
A. 48

C. 8

B. 64

D. 7

7) Here is a rectangle:



Count all the unit squares. Write how many unit squares cover this rectangle.

8) Which sentence is true?

A. A 5×2 rectangle has area 14

C. A 4×2 rectangle has area 8

B. A 3×3 rectangle has area 6

D. A 6×6 rectangle has area 12

9) A rectangle is divided into 3 equal parts. If $\frac{2}{3}$ is shaded, how many parts are shaded?



A. 1 part

C. 3 parts

B. 2 parts

D. 0 parts



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 D is correct.** **(3.OA.D.9)** Odd numbers increase by 2 each time: $11 + 2 = 13$.
- 2) **Choice D is correct.** **(3.NBT.A.1)** The tens digit is 7. Since $7 \geq 5$, round up: 475 rounds to 500.
- 3) **Choice D is correct.** **(3.OA.A.2)** $35 \div 7 = 5$. The blocks are divided equally among the friends.
- 4) **Choice D is correct.** **(3.NBT.A.2)** Ones: $1 - 9$ requires regrouping, so $11 - 9 = 2$. Tens: after regrouping, $4 - 2 = 2$. Hundreds: $7 - 3 = 4$. The correct answer is 422, so $751 - 329 = 412$ is incorrect.
- 5) **Choice C is correct.** **(3.MD.C.6)** Area = $9 \times 7 = 63$ square feet.
- 6) **Choice D is correct.** **(3.OA.C.7)** $54 \div 6 = 9$ because $9 \times 6 = 54$.
- 7) **Choice A is correct.** **(3.MD.C.5)** Area measures the space on a surface, which is measured in square units. A sheet of paper's surface can be measured in square centimeters.
- 8) **Choice B is correct.** **(3.G.A.1)** The rectangle has two sides that are 3 cm (the length) and two sides that are 2 cm (the width). This makes 2 pairs of equal sides.
- 9) **Choice B is correct.** **(3.NF.A.2a)** The second tick is at $\frac{2}{4}$, which is two unit fractions of size $\frac{1}{4}$ each.
- 10) **Choice B is correct.** **(3.MD.A.1)** $1 : 16 + 29 \text{ min} = 1 : 45 \text{ PM}$.
- 11) **Choice C is correct.** **(3.NF.A.2b)** Six sixths means $6 \times \frac{1}{6} = 1$. This equals one whole unit.
- 12) **Choice A is correct.** **(3.G.A.2)** If 2 out of 3 parts are shaded, then 1 part is not shaded, which is $\frac{1}{3}$.
- 13) **The correct answer is** $3 \times 6 = 18$. **(3.OA.A.1)** Students may also write $6 \times 3 = 18$ because the same array can be counted by rows or by columns.
- 14) **Choice C is correct.** **(3.NF.A.1)** When a whole is divided into 4 equal parts, each part is called one-fourth, or $\frac{1}{4}$.
- 15) **Choice D is correct.** **(3.OA.B.5)** The expanded distributive equation is $3 \times 4 + 3 \times 3 = 12 + 9 = 21$.
- 16) **Choices A and C are correct.** **(3.MD.C.7d)** A is correct because it divides into non-overlapping rectangles and adds. C is correct (any horizontal or vertical decomposition works). B is wrong (multiply areas, not add individual dimensions). D is also valid but only A and C are listed as choices. E is wrong (must find actual areas, not just look at the longest side).
- 17) **Choice C is correct.** **(3.MD.C.5a)** A unit square with side 1 m has area $1 \text{ m} \times 1 \text{ m} = 1 \text{ m}^2 = 1$ square meter.
- 18) **Choice B is correct.** **(3.MD.C.7)** Adding the width 2 six times: $2 + 2 + 2 + 2 + 2 + 2 = 12$. This is the same as $6 \times 2 = 12$ square units.
- 19) **Choice D is correct.** **(3.OA.A.4)** Use the inverse: $6 \times 4 = 24$, so $24 \div 4 = 6$. Check: $24 \div 4 = 6$.
- 20) **The correct answer is** 2800 g. **(3.MD.A.2)** Convert: 2 kg = 2000 g. Add: $2000 + 500 + 300 = 2800$ g.
- 21) **Choice B is correct.** **(3.OA.D.8)** Step 1: Add: $30 + 10 = 40$ cars. Step 2: Subtract: $40 - 15 = 25$ cars. (Choice D is step 1 only.)
- 22) **Choice B is correct.** **(3.MD.C.5b)** Counting the 8 unit squares in the grid gives an area of 8 square units.
- 23) **Choice C is correct.** **(3.MD.B.3)** Divide the total by the scale: $12 \div 2 = 6$ units tall.
- 24) **Choice D is correct.** **(3.OA.A.3)** Multiply: 4 boxes \times 8 pens per box = 32 pens.
- 25) **Choice D is correct.** **(3.NBT.A.3)** $4 \times 20 = 4 \times (2 \times 10) = (4 \times 2) \times 10 = 8 \times 10 = 80$. This uses associative property: you break 20 into 2×10 , multiply the single digits first, then multiply by 10.
- 26) **The correct answer is** 9. **(3.OA.B.6)** $36 \div 4 = 9$ because $9 \times 4 = 36$. We find the missing factor in the multiplication fact.
- 27) **Choice C is correct.** **(3.MD.C.7a)** $7 \times 5 = 35$ square units.
- 28) **Choice A is correct.** **(3.NF.A.3d)** Two halves equals 1. Two fourths is less than 1. So $\frac{2}{4} < \frac{2}{2}$.
- 29) **Choice C is correct.** **(3.MD.B.4)** Add all X's: $1 + 3 + 2 + 4 = 10$ stems total.
- 30) **Choice D is correct.** **(3.MD.C.7c)** This equation uses subtraction instead of addition. The correct form is $6 \times (5 + 2) = 6 \times 5 + 6 \times 2$.



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Notes From the Math Gardener

Hi, Math Gardener!

◇ Look at how much you grew! 4 tests is like 4 weeks of taking care of your math garden. Every problem was a seed. Every try was water. ◇

★ **Gardeners say:** growth takes time. You can't see roots, but they are there. You can't always feel smarter, but you are. Your math garden is full! ★

Garden Check-Up

- **Roots:** STRONG! Your basic math is solid.
- **Stems:** STURDY! You can do step-by-step problems.
- **Leaves:** GREEN! You have lots of math tools.
- **Flowers:** BRIGHT! You feel proud of your work.

Gardener tip: keep watering your math garden long after the test. Every habit you built will grow with you for years!

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

Jay Daie

Your Math Gardener

Build Skills. Achieve More.

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

What's Inside?



Standards-Aligned Practice

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.



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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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