

4

Maine

Through Year Assessment

GRADE 4 MATH PRACTICE TESTS


 5 FULL-LENGTH PRACTICE TESTS

 STANDARDS-ALIGNED REVIEW

 MIXED PRACTICE QUESTIONS

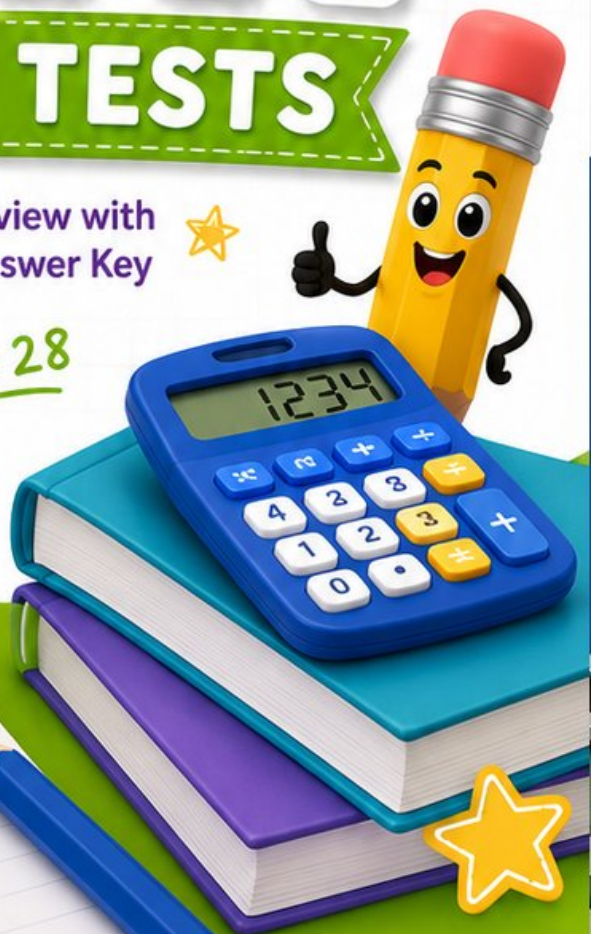
 ANSWER KEY INCLUDED

★ Standards-Aligned Review with Mixed Practice and Answer Key ★

 $4 \times 7 = 28$

$36 \div 9 = 4$


$$\begin{array}{r} 125 \\ + 87 \\ \hline 212 \end{array}$$



4 Maine Through Year Assessment Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Four focused 30-question missions for Grade 4 math: number facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

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Welcome, Maine Math Explorer!

Four steady rounds on the Pine Tree State math route

This book gives you four full Grade 4 practice tests for Through Year Assessment. Each round uses pine forests, lighthouse beams, and patient checking to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Maine Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

How to Use This Book

A ten-session routine for Maine Through Year Assessment review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the Pine Tree State math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

Good rhythm: Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



What Is Inside?

Four tests, 120 questions, and a full Through Year Assessment review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 2–4	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 2–4	Stamina rounds for mixed review, neat work, and flexible strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

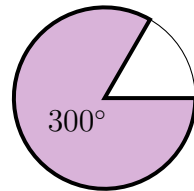
The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



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1)

If the shaded angle measures 300° , what fraction of a complete turn is this?

- A. $\frac{2}{3}$ C. $\frac{5}{6}$
 B. $\frac{3}{4}$ D. $\frac{4}{5}$

2) Maya has 2 hours 30 minutes to complete a project. She works for 1 hour 45 minutes. How much time does she have left?

- A. 45 minutes C. 1 hour
 B. 75 minutes D. 1 hour 15 minutes

3) A rectangular field has a perimeter of 80 meters. The length is 25 meters. What is the width?

- A. 10 m C. 20 m
 B. 15 m D. 55 m

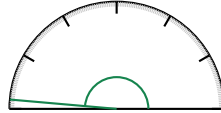
4) A school gym has 14 benches. Each bench seats 35 people. How many people can sit on all the benches?

- A. 490 people C. 560 people
 B. 420 people D. 630 people



- 5) The population of a town is 42,567. Round this number to the nearest thousand.

6)



What is the measure of this angle very close to a straight line?

- A. 180 degrees C. 5 degrees
 B. 175 degrees D. 170 degrees
- 7) Sofia has 7 stickers. Liam has 3 times as many. How many more stickers does Liam have than Sofia?
- A. 10 C. 21
 B. 3 D. 14
- 8) Which number is divisible by 5?
- A. 84 C. 105
 B. 91 D. 113
- 9) Which statement is true?
- A. $9 \times \frac{1}{9} = 0$ C. $9 \times \frac{1}{9} = \frac{9}{1}$
 B. $9 \times \frac{1}{9} = 1$ D. $9 \times \frac{1}{9} = 9$



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10) Ava listed multiples of $\frac{1}{2}$: $\frac{1}{2}, \frac{2}{2}, \frac{3}{2}, \frac{4}{2}, \frac{5}{2}$. Which is correct?

- A. Only $\frac{1}{2}$ and $\frac{2}{2}$
 C. Only even numerators
 B. All are correct multiples
 D. None are multiples

11) Which sum is correct?

- A. $\frac{7}{10} + \frac{10}{100} = \frac{80}{100}$
 C. $\frac{7}{10} + \frac{10}{100} = \frac{7}{10}$
 B. $\frac{7}{10} + \frac{10}{100} = \frac{17}{110}$
 D. $\frac{7}{10} + \frac{10}{100} = \frac{7}{100}$

12) Add: $3,456 + 4,567 = ?$

- A. 8,012
 C. 7,923
 B. 7,913
 D. 8,023

13) This fraction bar shows a decomposition. The light part is $\frac{3}{5}$ and the dark part is $\frac{2}{5}$.



The whole fraction is:

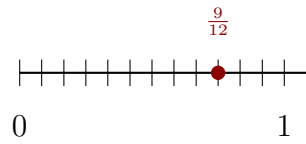
- A. $\frac{3}{5}$
 C. $\frac{5}{5}$
 B. $\frac{2}{5}$
 D. $\frac{6}{5}$

14) In the number 7,654, how many times greater is the value of the 6 than the value of the 5?

- A. 10 times
 C. 12 times
 B. 100 times
 D. 1,000 times



1) A number line shows jumps of $\frac{1}{12}$. At what position after 9 jumps?



- | | |
|--|---|
| <input type="checkbox"/> A. $\frac{1}{12}$ | <input type="checkbox"/> C. $\frac{9}{12}$ |
| <input type="checkbox"/> B. $\frac{6}{12}$ | <input type="checkbox"/> D. $\frac{12}{12}$ |

2) Mia measured fish lengths in halves of an inch: $\frac{1}{2}$, $\frac{1}{2}$, $\frac{1}{2}$, 1, $\frac{3}{2}$, 1. When plotted, which length has the most X marks?

- | | |
|--|--|
| <input type="checkbox"/> A. $\frac{1}{2}$ in | <input type="checkbox"/> C. $\frac{3}{2}$ in |
| <input type="checkbox"/> B. 1 in | <input type="checkbox"/> D. 2 in |

3) Estimate by rounding to the nearest thousand: $26,345 - 8,912 = ?$

- | | |
|--|--|
| <input type="checkbox"/> A. About 18,000 | <input type="checkbox"/> C. About 19,000 |
| <input type="checkbox"/> B. About 20,000 | <input type="checkbox"/> D. About 17,000 |

4) Which of these letters does **not** have a line of symmetry?

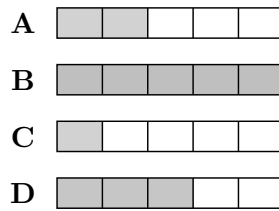
- | | |
|--------------------------------------|--------------------------------------|
| <input type="checkbox"/> A. <i>M</i> | <input type="checkbox"/> C. <i>T</i> |
| <input type="checkbox"/> B. <i>O</i> | <input type="checkbox"/> D. <i>Z</i> |

5) An acute angle measures less than how many degrees?



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6) Which fraction bar correctly shows $2 \times \frac{1}{5}$?

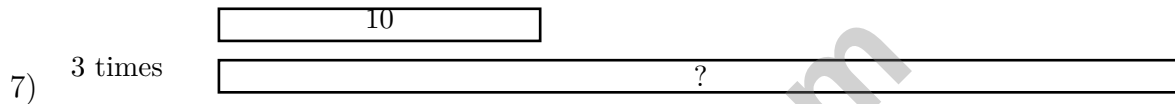


A. Picture A

C. Picture C

B. Picture B

D. Picture D



A garden has 10 rose bushes. A park has 3 times as many rose bushes. How many rose bushes does the park have?

A. 13

C. 30

B. 27

D. 35



What is the measure of angle ψ shown in the diagram?

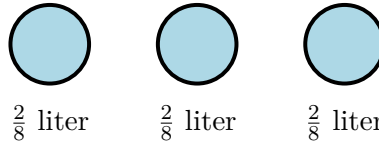
A. 20°

C. 45°

B. 30°

D. 60°





4)

Each container holds $\frac{2}{8}$ liter. How many liters are in 3 containers?

- A. $\frac{6}{8}$ liters (or $\frac{3}{4}$ liters) C. $\frac{3}{8}$ liter
 B. $\frac{2}{24}$ liter D. 3 liters

5) Which comparison is correct?

- A. $\frac{2}{3} < \frac{1}{2}$ C. $\frac{2}{3} > \frac{1}{2}$
 B. $\frac{2}{3} = \frac{1}{2}$ D. $\frac{2}{3} < \frac{3}{6}$

6) Which decimal is between $\frac{2}{10}$ and $\frac{4}{10}$?

- A. 0.1 C. 0.5
 B. 0.3 D. 0.6

7) Complete the factor pair table for 20:

First Factor	Second Factor
1	20
2	?

What goes in the ?

- A. 8 C. 12
 B. 15 D. 10



Practice Test Answer Keys

How to use this section with a Grade 4 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 C is correct.** (4.MD.C.5) $\frac{300}{360} = \frac{5}{6}$ after simplifying by dividing by 60.
- 2) **Choice A is correct.** (4.MD.A.2) Convert to minutes: 2 hours 30 minutes = 150 minutes. She works 1 hour 45 minutes = 105 minutes. Subtract: $150 - 105 = 45$ minutes. She has **45** minutes left.
- 3) **Choice B is correct.** (4.MD.A.3) Using $P = 2\ell + 2w = 80$ with $\ell = 25$: $2(25) + 2w = 80$. Simplify: $50 + 2w = 80$, so $2w = 30$, thus $w = 15$ m.
- 4) **Choice A is correct.** (4.NBT.B.5) Distribute: $14 \times (30 + 5) = 420 + 70 = \mathbf{490}$ people.
- 5) **The correct answer is 43,000.** (4.NBT.A.3) We're rounding to the nearest thousand. Look at the hundreds digit: 5. Since $5 \geq 5$, round UP! The thousands digit changes to 3, giving us **43,000** people. ✓
- 6) **Choice B is correct.** (4.MD.C.6) The ray points to the 175° mark, which is just 5° short of a straight angle (180°). This is a very wide obtuse angle. The answer is **175** degrees.
- 7) **Choice D is correct.** (4.OA.A.1) Step 1: find Liam's stickers: $7 \times 3 = 21$. Step 2: "how many more" is a subtraction: $21 - 7 = 14$. So Liam has **14** more stickers than Sofia.
- 8) **Choice C is correct.** (4.OA.B.4) Divisibility rule for 5: the last digit must be 0 or 5. 105 ends in 5—yes! So $105 \div 5 = 21$. The others end in 4, 1, 3—none of which are 0 or 5.
- 9) **Choice B is correct.** (4.NF.B.4) When we have 9 copies of $\frac{1}{9}$, we have all 9 of the equal parts, which make one complete whole. So $9 \times \frac{1}{9} = 1$.
- 10) **Choice B is correct.** (4.NF.B.4) Every fraction in Ava's list counts by halves: $\frac{1}{2}, \frac{2}{2}, \frac{3}{2}, \frac{4}{2}, \frac{5}{2}$. Each one is a multiple of $\frac{1}{2}$.
- 11) **Choice A is correct.** (4.NF.C.5) Convert $\frac{7}{10}$ to hundredths: $\frac{7}{10} = \frac{70}{100}$. Now add: $\frac{70}{100} + \frac{10}{100} = \frac{80}{100}$.
- 12) **Choice D is correct.** (4.NBT.B.4) Add from right to left: ones give 13 (write 3, carry 1), tens give 12 (write 2, carry 1), hundreds give 10 (write 0, carry 1), thousands give 8. The sum is **8,023**.
- 13) **Choice C is correct.** (4.NF.B.3) Light part is $\frac{3}{5}$, dark part is $\frac{2}{5}$. Together: $3 + 2 = 5$, so $\frac{3}{5} + \frac{2}{5} = \frac{5}{5} = 1$ whole ✓.
- 14) **Choice C is correct.** (4.NBT.A.1) Step 1: name the values. In 7,654, the 6 sits in the hundreds place (worth $6 \times 100 = 600$); the 5 sits in the tens place (worth $5 \times 10 = 50$). Step 2: compare with division: $600 \div 50 = 12$. So the 6's value is **12** times the 5's value. *Note:* the digits are different here, so the answer isn't just a power of 10. ✓
- 15) **Choice D is correct.** (4.OA.B.4) Tiles grow by 2 each time: 2, 4, 6, 8, 10, 12, **14**. Figure 7 has **14** tiles.
- 16) **The correct answer is A, B.** (4.G.A.3) Choice A is correct because a regular pentagon has exactly 5 lines of symmetry. Choice B is correct because a regular hexagon has exactly 6. Choice C is wrong (equilateral triangles have 3, not 6). Choice D is wrong (regular octagons have 8, not 4). Choice E is wrong because different regular polygons have different numbers of symmetry lines!
- 17) **Choice A is correct.** (4.MD.C.7) The pizza shows two adjacent sections. Combine them: $37^\circ + 58^\circ = \mathbf{95^\circ}$.
- 18) **Choice A is correct.** (4.NBT.B.6) Use long division: $16 \div 8 = 2$, bring down the 2 to get $2 \div 8 = 0$ r2, bring down the 4 to get $24 \div 8 = 3$. Each shelf gets **203** books.
- 19) **Choice B is correct.** (4.G.A.2) A trapezoid is defined by having exactly one pair of parallel sides. Since parallelograms, rectangles, and rhombuses each have two pairs of parallel sides, they cannot be trapezoids. The answer is **B**.
- 20) **Choice C is correct.** (4.OA.A.3) Two steps! Step 1: find how many pens are in the packs. $5 \times 6 = 30$. Step 2: add the old pens: $30 + 4 = 34$ pens altogether.
- 21) **Choice B is correct.** (4.G.A.1) Picture two railroad tracks stretching into the distance — they never touch and stay the same distance apart the whole way. That's what parallel lines do.
- 22) **Choice D is correct.** (4.NF.B.4) We take 2 copies of $\frac{4}{5}$. Multiply: $2 \times \frac{4}{5} = \frac{2 \times 4}{5} = \frac{8}{5} = 1\frac{3}{5}$. The answer is **1 $\frac{3}{5}$** .
- 23) **Choice D is correct.** (4.OA.A.2) "2 times as many" means multiply by 2: $2 \times 16 = 32$ toy cars.
- 24) **Choice A is correct.** (4.NF.A.1) $\frac{2}{100}$ is tiny (close to 0), while $\frac{99}{100}$ is almost 1. So $\frac{2}{100} < \frac{99}{100}$. The benchmark fractions 0 and 1 show the comparison clearly.
- 25) **The correct answer is $2\frac{6}{8}$.** (4.NF.B.3) Since $\frac{5}{8} < \frac{7}{8}$, regroup: $6\frac{5}{8} = 5\frac{13}{8}$. Then subtract: $5\frac{13}{8} - 3\frac{7}{8} = \mathbf{2\frac{6}{8}}$.
- 26) **Choice C is correct.** (4.MD.C.5) An angle that is neither acute nor obtuse must be either a right angle (90 degrees) or a straight angle (180 degrees).



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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

PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students build strong math skills, master key concepts, and gain the confidence they need to excel.

With 4 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to strengthen problem-solving skills and achieve their best.

Perfect for classroom use, homework, test preparation, and extra practice at home.

PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Confidence Building

★ **CONFIDENCE TODAY.
SUCCESS TOMORROW!**

WHAT STUDENTS WILL GAIN



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Test Confidence

Become familiar with test-style questions and formats.



Track Progress

Measure growth across multiple practice tests.



Prepare for Success

Build the confidence needed to do your best on test day.

TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Decimals
- ✓ Geometry & Measurement
- ✓ Data, Graphs & Line Plots
- ✓ Perimeter & Area
- ✓ Patterns & Algebraic Thinking
- ✓ Word Problems
- ✓ And More!



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STANDARDS-
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MIXED PRACTICE
QUESTIONS