

5

Maine

Through Year Assessment

Standards-Aligned Review with
Mixed Practice and Answer Key



5 Maine Through Year Assessment Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Five complete 30-question Grade 4 practice rounds for Through Year Assessment, built around pine forests, lighthouse beams, and patient checking, with answer keys and clear explanations for every item.

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Welcome, Maine Math Explorer!

Five steady rounds on the Pine Tree State math route

This book gives you five 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?

Five tests, 150 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 3–5	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 3–5	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) Diego has $\frac{5}{10}$ of a granola bar. How many tenths does he have?

A. 5 tenths

C. 2 tenths

B. 10 tenths

D. 15 tenths

2) Add: $41,234 + 38,765 = ?$

A. 79,999

C. 79,989

B. 80,099

D. 80,199

3) What is $\frac{1}{4} + \frac{3}{4}$?

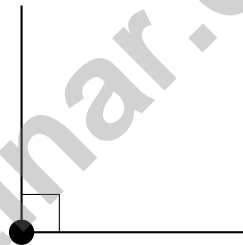
A. $\frac{4}{8}$

C. $\frac{3}{4}$

B. $\frac{4}{4}$ or 1

D. $\frac{1}{8}$

4)



Which of the following has the same size as the angle shown?

A. An acute angle

C. An obtuse angle

B. A right angle

D. A straight angle



5) Sam has a ribbon $\frac{6}{8}$ yard long. He cuts it into two equal pieces. Each piece is:

- A. $\frac{2}{8}$ yard C. $\frac{4}{8}$ yard
 B. $\frac{3}{8}$ yard D. $\frac{6}{8}$ yard

6) Which of the following best describes a line segment?

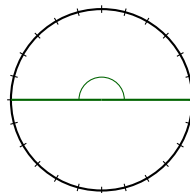
- A. A line that goes on forever in both directions C. A straight path that has a start but goes on forever in one direction
 B. A straight path between two points with a definite start and end D. A point that marks the middle of a line

7) Round 41,449 to the nearest hundred.

- A. 42,000 C. 41,500
 B. 41,450 D. 41,400

8) Ming has 4 boxes of crayons. Each box has 18 crayons. How many crayons does Ming have?

- A. 44 C. 64
 B. 82 D. 72



straight angle

9)

A straight angle is shown above. How many one-degree angles make a straight angle?

- A. 90 one-degree angles C. 360 one-degree angles
 B. 180 one-degree angles D. 270 one-degree angles



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10) A chef uses 4 tablespoons of salt in a recipe. How many teaspoons is this? (Hint: 1 tablespoon = 3 teaspoons)

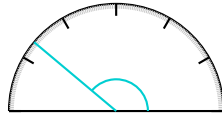
A. 4

C. 12

B. 8

D. 16

11)



What is the measure of the angle shown?

A. 130 degrees

C. 160 degrees

B. 150 degrees

D. 140 degrees

12) Which shows the first four consecutive multiples of $\frac{1}{3}$ in order?

A. $\frac{1}{3}, \frac{2}{3}, \frac{4}{3}, \frac{5}{3}$

C. $\frac{1}{3}, \frac{1}{6}, \frac{1}{9}, \frac{1}{12}$

B. $\frac{1}{3}, \frac{2}{3}, \frac{3}{3}, \frac{4}{3}$

D. $\frac{1}{3}, \frac{2}{3}, \frac{3}{9}, \frac{4}{9}$

13) A store has 200 books. They receive 35 more books. Then they sell 78 books. How many books do they have left?

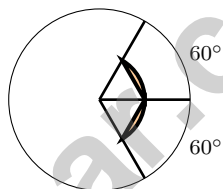


1) How many pairs of parallel sides does a parallelogram have?

2) A soccer team won some games. Another team won 4 times as many games, and that team won 32 games. How many games did the first team win?

- A. 4
 B. 36

- C. 28
 D. 8



3)

Two equal 60° angles are shown. How many more such angles are needed to complete the full circle?

- A. 2
 B. 4

- C. 6
 D. 8

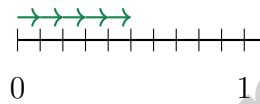
4) Write $2\frac{5}{6}$ as an improper fraction.



5) Which bar model shows “15 is 3 times as many as 5”?



- A. Neither model works
 B. Model B
 C. Both are the same
 D. Model A
- 6) Lia jumped $\frac{1}{10}$ of the way along a line, five times. Where did she land?



- A. $\frac{1}{10}$
 B. $\frac{3}{10}$
 C. $\frac{5}{10}$
 D. $\frac{10}{10}$
- 7)
- $$\begin{array}{r}
 2,347 \\
 +3,285 \\
 \hline
 \end{array}$$
- Carry 1
 Add ones: $7 + 5 = 12$

What is the sum $2,347 + 3,285$?

- A. 5,632
 B. 5,722
 C. 5,542
 D. 5,742
- 8) Use the place-value chart below to find the decimal for $\frac{6}{10}$.

Ones	Tenths	Hundredths

- A. 0.6
 B. 0.06
 C. 6.0
 D. 60.0



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1) What is $2,432 \div 8$?

A. 304

C. 324

B. 314

D. 334

2) What is 24×36 ?

A. 84

C. 864

B. 144

D. 924

3) A slanted parallelogram that is not a rectangle or a rhombus has how many lines of symmetry?

A. 0

C. 2

B. 1

D. 4

4) An angle is formed by two rays. If the angle measures 165° and one part is 92° , what is the measure of the other part?

A. 73°

C. 92°

B. 257°

D. 100°

5) Mia arranged 24 stickers into arrays. Which array does NOT show a factor pair of 24?

A. 4×6



B. 5×5



C. 3×8



D. 2×12



A. 4×6

C. 3×8

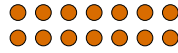
B. 5×5

D. 2×12



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Paige



Quinn

6)

Paige has 7 bookmarks. Quinn has 2 times as many bookmarks as Paige. How many bookmarks does Quinn have?

7) Which decimal is greatest?

 A. 0.48 C. 0.44 B. 0.84 D. 0.41

8) A restaurant has 8 small tables. It has 3 times as many medium tables as small tables. How many medium tables does it have?

9) $\frac{5}{8}$ can be written as $\frac{2}{8} + \frac{2}{8} + \frac{1}{8}$. Which other decomposition is correct?

 A. $\frac{1}{8} + \frac{1}{8} + \frac{3}{8}$ C. $\frac{1}{8} + \frac{2}{8} + \frac{1}{8}$ B. $\frac{2}{8} + \frac{3}{8} + \frac{1}{8}$ D. $\frac{3}{8} + \frac{3}{8} + \frac{1}{8}$ 

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 A is correct.** (4.NF.B.4) The fraction $\frac{5}{10}$ shows us 5 parts out of 10 equal parts. Since each part is $\frac{1}{10}$, we have 5 copies of $\frac{1}{10}$, or 5 tenths.
- 2) **Choice A is correct.** (4.NBT.B.4) Add by place value: ones $4 + 5 = 9$, tens $3 + 6 = 9$, hundreds $2 + 7 = 9$, thousands $1 + 8 = 9$, ten-thousands $4 + 3 = 7$. The sum is **79,999**.
- 3) **Choice B is correct.** (4.NF.B.3) Add numerators: $1 + 3 = 4$. We get $\frac{4}{4}$, which is one whole. When the top and bottom match, it equals 1.
- 4) **Choice B is correct.** (4.MD.C.5) The angle shown has a perfect square corner, which is a right angle.
- 5) **Choice B is correct.** (4.NF.B.3) Sam's ribbon is $\frac{6}{8}$ yard. Cut into two equal pieces means each piece is half: $\frac{6}{8} \div 2 = \frac{3}{8}$ ✓.
- 6) **Choice B is correct.** (4.G.A.1) A line segment is like a piece of string with two knots at each end — it stops at both points. A line keeps going forever both ways, and a ray has just one starting point and goes forever in one direction.
- 7) **Choice D is correct.** (4.NBT.A.3) We're rounding to the nearest hundred. Look at the tens digit: 4. Since $4 < 5$, we round DOWN. The hundreds digit stays at 4, giving us **41,400**. ✓
- 8) **Choice D is correct.** (4.NBT.B.5) Break 18 into tens and ones: $4 \times (10 + 8) = 40 + 32 = \mathbf{72}$ crayons.
- 9) **Choice B is correct.** (4.MD.C.5) A straight angle is a 180° angle, meaning it turns through **180** one-degree angles.
- 10) **Choice C is correct.** (4.MD.A.1) Since 1 tablespoon = 3 teaspoons, multiply: $4 \times 3 = 12$ teaspoons. The answer is **12** teaspoons.
- 11) **Choice D is correct.** (4.MD.C.6) The ray points to the 140° mark. At this measure, the angle is wider than a right angle but not yet flat, so it's obtuse. The answer is **140** degrees.
- 12) **Choice B is correct.** (4.NF.B.4) Multiples of $\frac{1}{3}$ count by thirds: first $\frac{1}{3}$, then $\frac{2}{3}$, then $\frac{3}{3}$, then $\frac{4}{3}$. The fraction $\frac{3}{3}$ equals 1, but it is written in thirds here to show the counting pattern. That's exactly what choice B shows!
- 13) **The correct answer is 157.** (4.OA.A.3) Two steps! Step 1: add the new books: $200 + 35 = 235$. Step 2: take away the books sold: $235 - 78 = \mathbf{157}$ books left.
- 14) **Choice B is correct.** (4.NF.B.4) On the number line, each jump moves forward by $\frac{1}{2}$. Four jumps starting from 0 land us at 2, showing $4 \times \frac{1}{2} = 2$.
- 15) **Choice B is correct.** (4.NF.B.3) Since $\frac{1}{3} < \frac{2}{3}$, regroup: $2\frac{1}{3} = 1\frac{4}{3}$. Now subtract: $1\frac{4}{3} - 1\frac{2}{3} = \frac{2}{3}$.
- 16) **The correct answer is A, E.** (4.OA.B.4) Even numbers end in 0, 2, 4, 6, 8. Pattern A (2, 4, 6, 8, 10) is all even. Pattern E (4, 8, 12, 16, 20) is all even. Patterns B, C, D each have odd numbers. Correct pairs: A and E. ✓
- 17) **Choice D is correct.** (4.NBT.A.1) The 6 in the hundreds place is worth 600, and the 6 in the tens place is worth 60. Since $600 \div 60 = 10$, the hundreds place is 10 times greater. ✓
- 18) **Choice C is correct.** (4.MD.B.4) On the line plot, $\frac{1}{4}$ inch has 2 X marks, while $\frac{3}{4}$ inch has 3 X marks. So $\frac{3}{4}$ inch has the most.
- 19) **Choice A is correct.** (4.OA.B.4) A factor pair has to *multiply* to give 24. Test each: $3 \times 8 = 24$ ✓; $4 \times 5 = 20$; $5 \times 5 = 25$; $2 \times 10 = 20$. Only choice A multiplies to exactly 24.
- 20) **Choice D is correct.** (4.MD.A.3) The diagram shows 6 mm long and 2 mm wide. Area = $6 \times 2 = 12$ sq mm.
- 21) **Choice D is correct.** (4.NF.A.1) The denominator goes from 6 to 12—that's multiply by 2. Multiply the numerator by 2 also: $\frac{1}{6} = \frac{1 \times 2}{6 \times 2} = \frac{2}{12}$.
- 22) **The correct answer is same amount.** (4.NF.A.1) Check if they're equivalent: $\frac{2}{6}$ simplifies by dividing both by 2 to get $\frac{1}{3}$. Same fraction, so they ate the same!
- 23) **Choice C is correct.** (4.NBT.A.2) Only C is true: $100,000 = 100,000$. The other statements don't work: A and B involve different number sizes, and D reverses the comparison ✓
- 24) **Choice A is correct.** (4.G.A.2) Examining the figure, no opposite sides appear to be parallel to each other. The single right angle marked at one corner does not indicate that opposite sides are parallel. The answer is **A**.
- 25) **Choice B is correct.** (4.NF.B.3) The cake is divided into 2 equal halves, and both are eaten. That's the whole cake: $\frac{2}{2}$. As unit fractions: $\frac{1}{2} + \frac{1}{2}$.



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Champion tip: on test day, walk in proud. You trained for this. You are ready!

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

Jay Daie

Your Math Coach

5 PRACTICE TESTS. BUILD SKILLS. BOOST CONFIDENCE!

This **Grade 4 Math Practice Tests** book is designed to help students master essential math concepts, improve problem-solving skills, and build the confidence they need to excel.

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A+