

# 3

# Maine

## Through Year Assessment

### GRADE 3

# MATH PRACTICE TESTS

Standards-Aligned  
Practice for Stronger  
Math Skills and  
Test Readiness



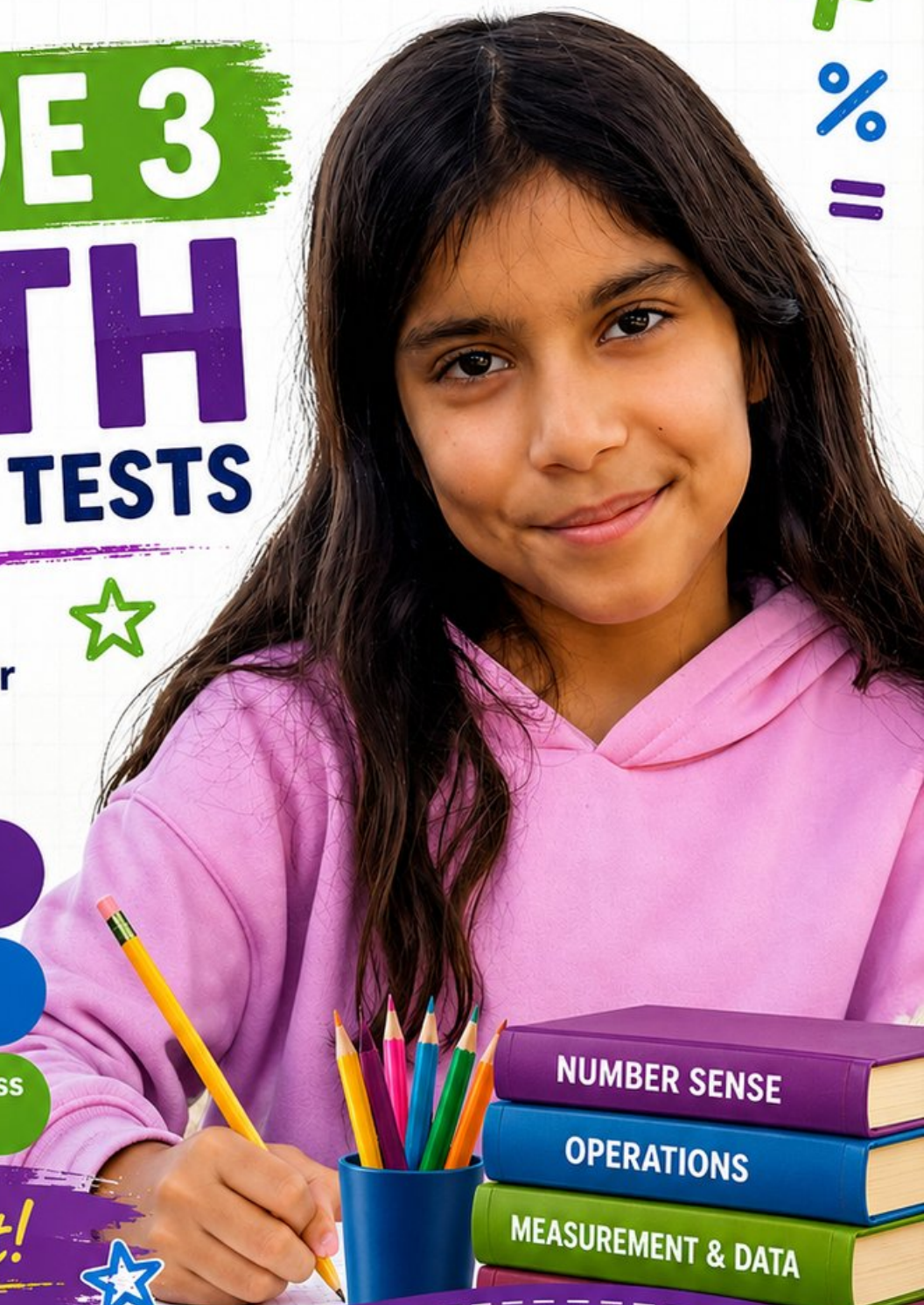
Build Confidence  
with Targeted Practice



Strengthen Skills  
in Key Math Concepts



Improve Test Readiness  
with Realistic Practice

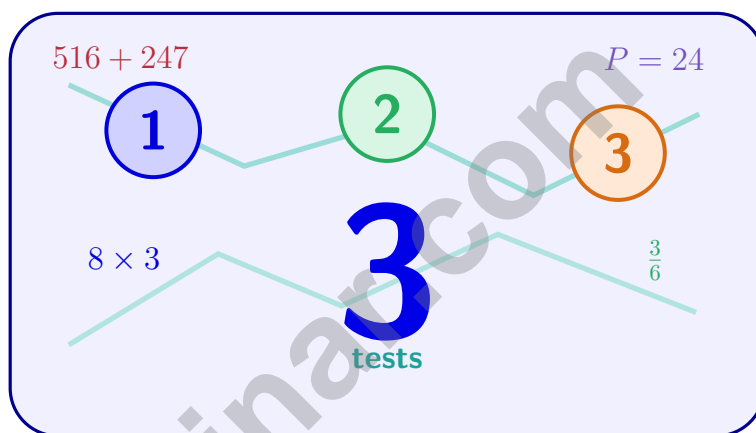


Be Ready.  
Do Your Best!



# 3 Maine Through Year Assessment 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, Maine Through Year Assessment strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

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# Welcome to the Maine 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 Maine Through Year Assessment. 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

<b>Week 1</b>	Hike Test 1. Map what feels strong and what needs a second look.
<b>Week 2</b>	Hike Test 2. Sharpen the habits: read slow, sketch the model, label every number.
<b>Week 3</b>	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 Maine Through Year Assessment 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 Through Year Assessment 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.

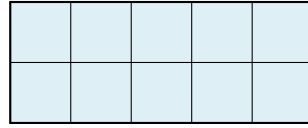


Scan me!  
For more practice  
& answers

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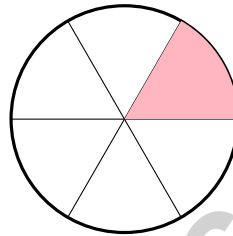
1)



What is the total area of this grid measured in unit squares?

- A. 7 square units                       C. 12 square units  
 B. 10 square units                     D. 15 square units

2) Look at this circle divided into 6 equal parts. One part is shaded.



What fraction is shaded?

- A.  $\frac{1}{6}$                                        C.  $\frac{6}{6}$   
 B.  $\frac{1}{5}$                                        D.  $\frac{2}{6}$

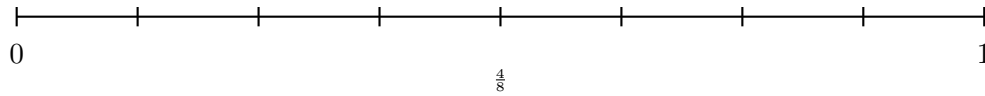
3) If  $\square \times 3 = 18$ , what is  $18 \div 3$ ?

- A. 3     C. 9  
 B. 18     D. 6





- 7) On a number line from 0 to 1 divided into 8 equal parts, which two fractions name the same point?



- A.  $\frac{1}{2}$  and  $\frac{4}{8}$ 
 C.  $\frac{3}{8}$  and  $\frac{5}{8}$   
 B.  $\frac{2}{8}$  and  $\frac{3}{8}$ 
 D.  $\frac{2}{4}$  and  $\frac{6}{8}$
- 8) In a multiplication table,  $2 \times 6 = 12$  and  $6 \times 2 = 12$ .  
Why does this pattern always happen?
- A. Because 2 and 6 are different numbers
  D. Because multiplication order does not change the product  
 B. Because the table is square-shaped  
 C. Because 12 is an even number
- 9) Complete  $\frac{2}{4} = \frac{?}{8}$ .

- 10) Which whole number equals  $\frac{8}{4}$ ?
- A. 2
  C. 1  
 B. 4
  D. 8
- 11) Ava measures a rectangular mat that is 7 units by 5 units. What is its area in square units?
- A. 12 sq units
  C. 24 sq units  
 B. 35 sq units
  D. 70 sq units









5) Which fraction equals  $\frac{2}{4}$ ?

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

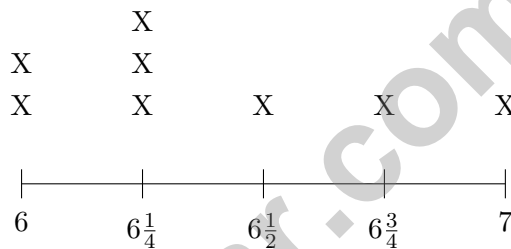
- C.  $\frac{3}{4}$   
 D.  $\frac{1}{3}$

6) A bar graph shows the scale as 5 items per unit. If a bar is 4 units tall, it represents how many items?

- A. 4 items  
 B. 9 items

- C. 20 items  
 D. 25 items

7) A line plot shows jump rope lengths in feet:  $6, 6\frac{1}{4}, 6\frac{1}{2}, 6\frac{3}{4}, 7$ .



How many jump ropes are at least  $6\frac{1}{4}$  feet long?

- A. 5  
 B. 6

- C. 7  
 D. 8

8) Which number sentence represents “How many groups of 3 are in 24?”

- A.  $24 \div 3$   
 B.  $3 \div 24$

- C.  $3 + 24$   
 D.  $3 \times 24$



## 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

- 1) **Choice B is correct.** (3.MD.C.5a) The grid is  $5 \times 2 = 10$  unit squares = 10 square units.
- 2) **Choice A is correct.** (3.NF.A.1) The circle is divided into 6 equal parts. One part is shaded, so the shaded fraction is  $\frac{1}{6}$  (one-sixth).
- 3) **Choice D is correct.** (3.OA.B.6) The unknown factor in  $\square \times 3 = 18$  is 6. This is exactly the same as  $18 \div 3 = 6$ . Multiplication and division are inverse operations.
- 4) **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.
- 5) **Choice D is correct.** (3.NBT.A.1) The tens digit is 9. Since  $9 \geq 5$ , round up: 893 rounds to 900.
- 6) **Choice A is correct.** (3.MD.A.2) 4 kg = 4000 g, which is more than 2500 g.
- 7) **Choice A is correct.** (3.NF.A.2) Both  $\frac{1}{2}$  and  $\frac{4}{8}$  represent the point halfway from 0 to 1 on a number line.
- 8) **Choice D is correct.** (3.OA.D.9) This is the commutative property of multiplication:  $a \times b = b \times a$ .
- 9) **The correct answer is 4.** (3.NF.A.3b) The numerator doubles from 2 to 4.
- 10) **Choice A is correct.** (3.NF.A.3c)  $\frac{8}{4}$  means 8 fourths. 4 fourths make 1 whole, so 8 fourths make 2 wholes.
- 11) **Choice B is correct.** (3.MD.C.5b)  $7 \times 5 = 35$  square units.
- 12) **Choice B is correct.** (3.MD.D.8)  $P = 2(5) + 2(2) = 10 + 4 = 14$  cm.
- 13) **Choices A and C are correct.** (3.MD.C.7) A is correct (core formula: length  $\times$  width = area). C is correct (counting unit squares shows area). B is perimeter-like, not area. D is false:  $5 \times 5 = 25$ , not 10. E is false (this is neither area nor perimeter).
- 14) **Choice D is correct.** (3.MD.B.3) Pile 1:  $4 \times 3 = 12$ . Pile 2:  $5 \times 3 = 15$ . Total:  $12 + 15 = 27$ .
- 15) **The correct answer is 20.** (3.MD.A.1)  $6 : 35$  is 20 minutes after 6 : 15.
- 16) **Choice A is correct.** (3.NF.A.2a) There are 2 halves in the interval, but 4 fourths. So  $4 - 2 = 2$  more fourths.
- 17) **Choice B is correct.** (3.MD.C.7a) Square:  $5 \times 5 = 25$  tiles. Equal row and column count.
- 18) **Choice D is correct.** (3.OA.C.7) 8 rows with 5 in each row:  $8 \times 5 = 40$ .
- 19) **The correct answer is 6.** (3.NF.A.3a) The denominator doubles, so the numerator doubles:  $3 \times 2 = 6$ .
- 20) **Choice A is correct.** (3.G.A.2) One shaded column out of three equal columns is  $\frac{1}{3}$  of the rectangle.
- 21) **Choice A is correct.** (3.OA.A.2) Dividing equally among groups means the total is shared into equal parts. Use division.
- 22) **Choice D is correct.** (3.OA.A.4) Use the inverse:  $35 \div 5 = 7$ . Check:  $7 \times 5 = 35$ .
- 23) **Choice A is correct.** (3.MD.C.7c) Both rectangles must have the same width 8, with lengths 3 and 4 that sum to 7.
- 24) **Choice B is correct.** (3.MD.C.7d) Add the areas:  $18 + 10 = 28$  square units.
- 25) **Choice A is correct.** (3.NBT.A.2) Ones:  $4 - 9$  requires regrouping, so  $14 - 9 = 5$ . Tens:  $2 - 8$  requires regrouping, so  $12 - 8 = 4$ . Hundreds:  $1 - 1 = 0$ . Difference is 45.
- 26) **Choice D is correct.** (3.MD.C.6)  $9 \times 4 = 36$  unit squares.
- 27) **Choice D is correct.** (3.MD.C.7b) Area = length  $\times$  width =  $10 \times 3 = 30$  square feet.
- 28) **Choice C is correct.** (3.G.A.1) A quadrilateral with two pairs of parallel sides is called a parallelogram. A trapezoid has only one pair of parallel sides.
- 29) **Choice A is correct.** (3.NF.A.3) Each friend gets  $\frac{1}{3}$ , which is equivalent to  $\frac{2}{6}$ .
- 30) **Choice C is correct.** (3.NBT.A.3) Multiply  $6 \times 4 = 24$ , then multiply by 10 to get 240:  $6 \times 40 = 24 \times 10 = 240$ . You decompose 40 as  $4 \times 10$ , then use the associative property.

### Practice Test 2 Answers and Explanations

## Hi, Math Detective!

◇ You did such a great job! You finished 3 tests like a real detective. You found the clues, used your tools, and solved the math. ◇

★ **Detectives know:** good work takes time. You took your time. You looked carefully. You found the answers! ★

### Your Detective Skills

- **Sharp Eyes:** You notice the small details.
- **Smart Plans:** You pick the right way to solve.
- **Brave Heart:** You try even when it's tricky.
- **Steady Work:** You finish what you start.

**Detective tip:** on test day, look carefully at each problem. Underline important words. Then solve like the detective you are!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Detective Helper

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# 3 GRADE 3 MATH PRACTICE TESTS

Practice Today. Succeed Tomorrow!



Give your child the tools to build strong math skills and test confidence!

This book includes 3 full-length Grade 3 Math practice tests that mirror real test formats and cover all key math standards. With a wide range of question types and real-world problems, students will gain the practice and confidence they need to do their best!

## What's Inside?



### Standards-Aligned Practice

Questions designed to cover essential Grade 3 math standards.



### Variety of Question Types

Multiple-choice, short answer, and more to build well-rounded skills.



### Real-World Applications

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- ✓ Algebraic Thinking
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- ✓ Measurement & Data
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- ✓ Perimeter, Area & Volume
- ✓ Graphing & Data Analysis
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