

8

Maine

Through Year Assessment

GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



8 Full-Length
Practice Tests



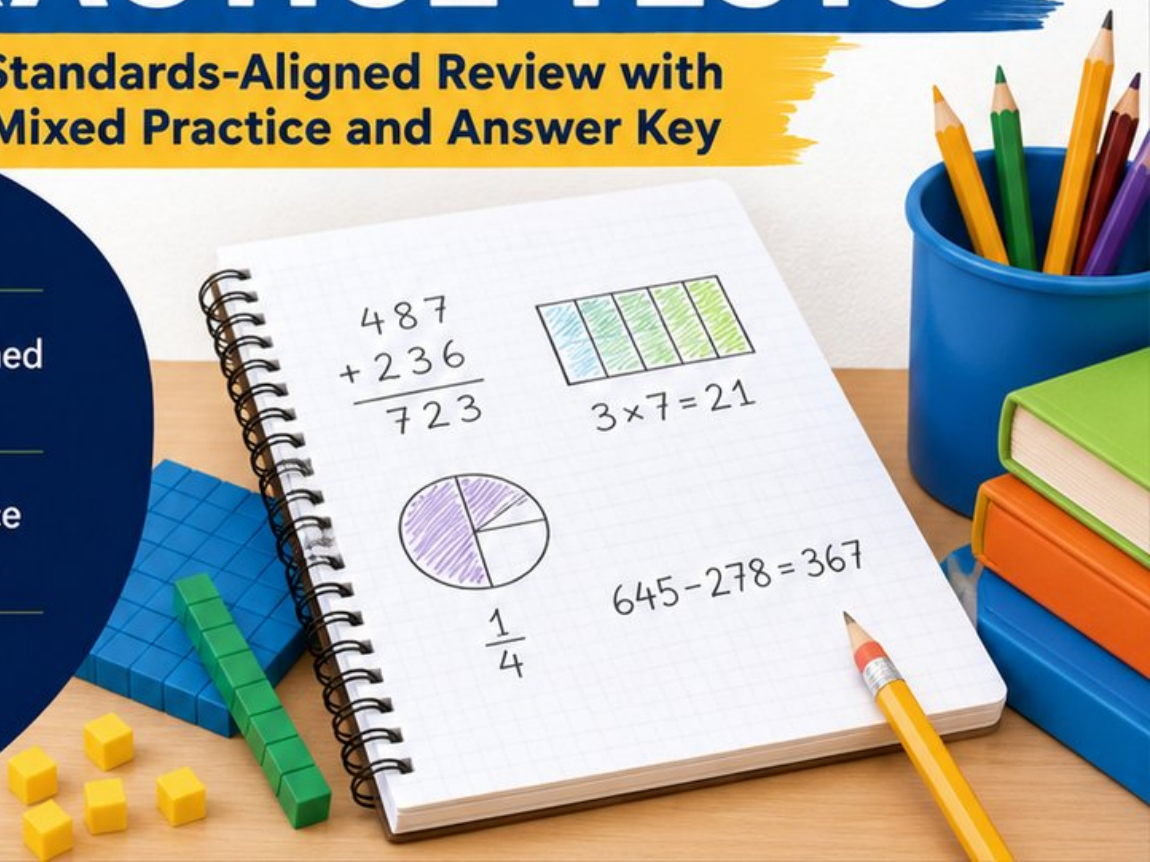
Standards-Aligned
Questions



Build Confidence
and Math Skills



Answer Key
Included



8 Maine Through Year Assessment Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Eight complete 30-question practice rounds for Grade 3 math:
operations, fractions, measurement, data, area, shapes, answer keys,
and clear explanations for every item.

Jay Daie and Reza Nazari



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Maine, Your Eight-Test Math Path Begins

Eight focused rounds, one stronger Grade 3 problem solver

This book gives you eight full chances to practice like a careful test taker for the Maine Through Year Assessment. Each test is a new route through numbers, shapes, data, measurement, and word problems. Work slowly enough to notice what the question asks, and proudly enough to show your thinking.

Maine has rocky coastlines, pine woods, lighthouse beams, harbor charts, and quiet study spaces, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and use patient steps when the path is not obvious.

Your Maine Math Promise

I will read the whole question, choose a smart strategy, write clear work, and check whether my answer makes sense.

Eight rounds. Thirty questions each. One careful step at a time.

How to Use This Book

A simple eight-round routine for confident review

Use this Maine book as a practice plan, not a race. Finish one test, review it, fix a few problems, then carry one better habit into the next test.

1. **Preview the reference page.** Notice units, time, and measurement facts before you begin.
2. **Take one full test.** Circle anything that feels tricky so you can return to it.
3. **Check the answer key.** Mark correct answers and questions to try again.
4. **Read explanations.** Study missed items and lucky guesses first.
5. **Redo three problems.** Write fresh work without copying the explanation.
6. **Name one habit.** Pick a focus such as labels, facts, fractions, or neat work.
7. **Try the next test.** Bring that habit forward.
8. **Finish with a final check.** Look for growth across all eight tests.

Best review habit: In Maine, strong practice means slowing down enough to see the clue. When an answer is wrong, ask, “What step would I change next time?”



What Is Inside the Eight Tests?

Mixed Grade 3 math practice for the Through Year Assessment

Each practice test has 30 questions. You will see multiple-choice questions, select-all questions, and open-ended questions with workspace. The mix helps students practice both choosing an answer and explaining a short mathematical result.

Part	What to Expect
Eight full tests	30 mixed Grade 3 questions in each round
Math topics	multiplication, division, place value, fractions, time, measurement, data, area, perimeter, and shapes
Answer keys	compact answer boxes for quick checking
Explanations	short reasoning for every item so mistakes become useful review
Progress pages	places to record scores, habits, and next-step goals

Maine focus: The practice path starts with rocky coastlines, pine woods, lighthouse beams, harbor charts, and quiet study spaces. Strong math uses the same idea: know the path, follow the clues, and check the final answer.

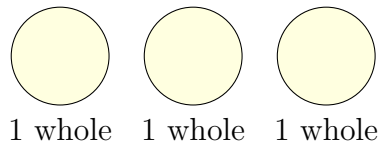


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1) Jon has 3 whole pizzas. How can we write this as a fraction?



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

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

2) Eli found that $6 \times 7 = 42$. Now he needs to find 7×6 . What does he know?

A. $7 \times 6 = 41$
 B. $7 \times 6 = 49$

C. $7 \times 6 = 43$
 D. $7 \times 6 = 42$

3) Which comparison is true?

A. $\frac{2}{8} < \frac{2}{6}$
 B. $\frac{2}{8} > \frac{2}{6}$

C. $\frac{2}{8} = \frac{2}{6}$
 D. $\frac{2}{6} < \frac{2}{8}$

4) A square tile has sides of 3 centimeters each. What is its area in square centimeters?

A. 6 square centimeters
 B. 9 square centimeters

C. 12 square centimeters
 D. 3 square centimeters

2	1	6
hundreds	tens	ones

5)

The place-value chart shows the number 216. What is $216 + 384$?

A. 600
 B. 601

C. 500
 D. 610

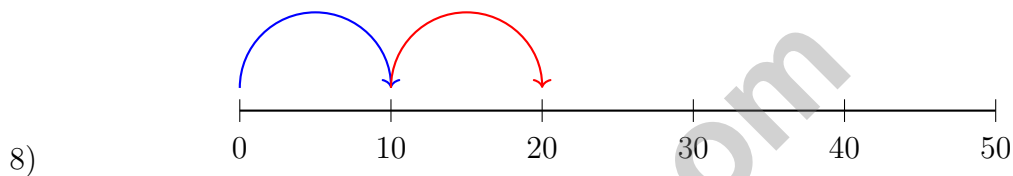


6) Noah finishes dinner at 6 : 11 PM. He finishes 26 minutes after starting. What time did Noah start eating dinner?

- A. 5 : 45 PM C. 6 : 00 PM
 B. 5 : 55 PM D. 6 : 37 PM

7) $\frac{1}{3} = \frac{2}{?}$. What is the missing denominator?

- A. 4 C. 8
 B. 6 D. 9



This number line shows skip counting. By how much are we jumping?

- A. By 5 C. By 15
 B. By 20 D. By 10

9) Noah colors $\frac{2}{6}$ of a page. His friend colors $\frac{1}{3}$ of an identical page. Do they color the same amount?

- A. The pages might be different. C. Yes, same amount.
 B. No, his friend colors more. D. No, Noah colors more.

10) You need to multiply 4×70 . Which shows a strategy you could use?

- A. $4 + 7 + 10 = 21$ C. $4 + 70 = 74$
 B. $(4 \times 7) \times 10 = 28 \times 10 = 280$ D. $(4 + 7) \times 10 = 110$

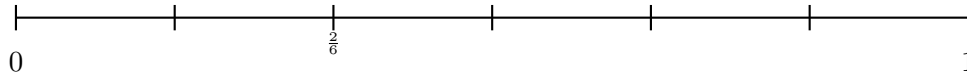


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11) What is 751 rounded to the nearest 100?

- A. 700 C. 751
 B. 750 D. 800

12) On a number line from 0 to 1 split into 6 equal parts, does the line show $\frac{1}{3}$?



- A. Yes, it shows $\frac{1}{3}$ at the first tick D. No, because $\frac{1}{3}$ is always between 0
 B. Yes, it shows $\frac{1}{3}$ at the second tick and 1
 C. No, because sixths and thirds are
different

13) A toy store has 60 action figures. They pack them into boxes of 6 figures each and sell 5 boxes. Which statements are TRUE about the remaining figures? (Select the TWO that are true.)

- A. There are 10 boxes total.
 B. There are 35 figures sold.
 C. There are 30 figures remaining.
 D. Each box has 5 figures.
 E. There are 5 figures remaining.

14) What number makes the equation true?

$$\square \times 7 = 42$$

- A. 8 C. 5
 B. 7 D. 6



1) What is $45 \div 5$?

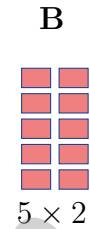
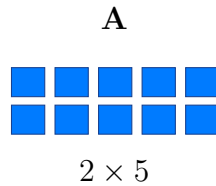
A. 8

C. 10

B. 11

D. 9

2) What do arrays A and B show?



A. Both arrays have 10 squares.

C. Array B has 12 squares.

B. Array A has 7 squares.

D. The arrays show different products.

3) Which problem equals 350? Check each one.

A. $5 \times 70 = (5 \times 7) \times 10 = 35 \times 10 = 350$

C. $5 \times 50 = (5 \times 5) \times 10 = 25 \times 10 = 250$

✓

D. $7 \times 70 = (7 \times 7) \times 10 = 49 \times 10 = 490$

B. $7 \times 40 = (7 \times 4) \times 10 = 28 \times 10 = 280$

4) A rectangular sign at school is 8 meters long and 4 meters wide. What is the area of the sign?

A. 12 sq m

C. 32 sq m

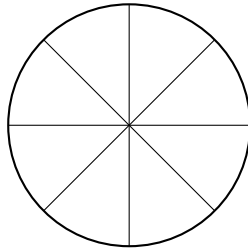
B. 24 sq m

D. 64 sq m

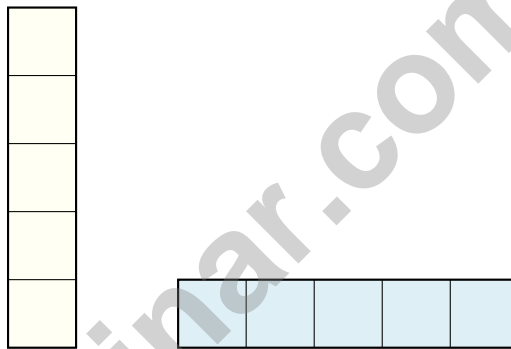


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- 5) A circle is divided by lines from the center to make 8 equal parts (like pizza slices).
What fraction is one slice?



- A. $\frac{2}{8}$
 C. $\frac{1}{4}$
 B. $\frac{1}{6}$
 D. $\frac{1}{8}$



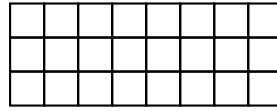
- 6) A B

Shapes A and B both have an area of 5 unit squares. Which shows the correct pairing by dimensions?

- A. A is 1×5 , B is 5×1
 C. Both are the same dimensions
 B. A is 5×1 , B is 1×5
 D. A is 1×5 , B is 2×3

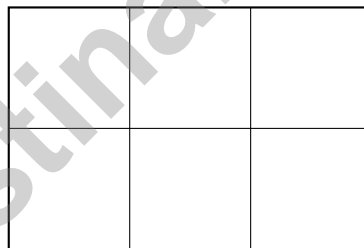


- 1) A teacher covers a classroom floor with square tiles. The floor is a rectangle that is 8 tiles long and 3 tiles wide. Here is a diagram:



Count the square tiles. How many tiles are needed to cover the entire floor?

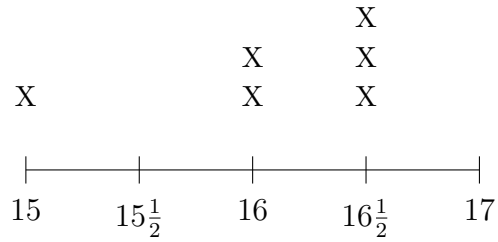
- A. 11 tiles (only the edge) C. 24 tiles
 B. 22 tiles (counted twice) D. 40 tiles
- 2) A rectangle is covered with 4 rows of 5 unit squares. What is the area? You can count by rows: $5 + 5 + 5 + 5$.
- A. 5 sq units C. 20 sq units
 B. 9 sq units D. 25 sq units
- 3) A student says that this rectangle is divided so each part is $\frac{1}{4}$. Is the student correct?



- A. Yes, there are 4 parts C. No, the parts are unequal
 B. No, there are 6 parts, so each is $\frac{1}{6}$ D. Yes, each part is $\frac{1}{4}$



- 4) Noah recorded bird wing spans in inches with halves: 15, $15\frac{1}{2}$, 16, $16\frac{1}{2}$, 17.



Which wing span is the mode?

- A. 15 inches C. $16\frac{1}{2}$ inches
 B. 16 inches D. 17 inches
- 5) Ava has 3 bags with 6 marbles in each bag. Which multiplication sentence matches?
- A. $3 + 6 = 9$ C. $6 + 6 = 12$
 B. $3 \times 3 = 9$ D. $3 \times 6 = 18$
- 6) A rectangular door is 7 feet tall and 4 feet wide. What is the area the door covers?
- A. 11 sq ft C. 28 sq ft
 B. 22 sq ft D. 56 sq ft
- 7) Sam marks $\frac{5}{8}$ and $\frac{8}{8}$ on a number line from 0 to 1 divided into eighths. How far apart, in eighths, are these two points?
- A. 3 eighths C. 1 eighth
 B. 5 eighths D. 8 eighths



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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.NF.A.3c)** Three whole pizzas = $\frac{3}{1}$ (three wholes, one part each).
- 2) **Choice D is correct.** **(3.OA.B.5)** By the commutative property of multiplication, $7 \times 6 = 6 \times 7 = 42$.
- 3) **Choice A is correct.** **(3.NF.A.3d)** Same numerator: eighths are smaller pieces than sixths. Two eighths is less than two sixths.
- 4) **Choice B is correct.** **(3.MD.C.5)** For a square with sides of 3 cm: $3 \times 3 = 9$ square centimeters.
- 5) **Choice A is correct.** **(3.NBT.A.2)** Ones: $6 + 4 = 10$ (write 0, carry 1). Tens: $1 + 8 + 1 = 10$ (write 0, carry 1). Hundreds: $2 + 3 + 1 = 6$. Answer: 600.
- 6) **Choice A is correct.** **(3.MD.A.1)** $6 : 11 - 26 \text{ min} = 5 : 45 \text{ PM}$.
- 7) **Choice B is correct.** **(3.NF.A.3b)** The numerator was multiplied by 2 (from 1 to 2). Multiply the denominator by 2: $3 \times 2 = 6$. So $\frac{1}{3} = \frac{2}{6}$.
- 8) **Choice D is correct.** **(3.OA.D.9)** The marks show 0, 10, 20, 30, 40, 50. Each jump is 10 units.
- 9) **Choice C is correct.** **(3.NF.A.3a)** $\frac{2}{6} = \frac{1}{3}$ because both represent one-third of the page.
- 10) **Choice B is correct.** **(3.NBT.A.3)** You can decompose 70 as 7×10 , then multiply $4 \times 7 = 28$ first, and finally multiply by 10. This uses the associative property of multiplication.
- 11) **Choice D is correct.** **(3.NBT.A.1)** The tens digit is 5. Since $5 \geq 5$, round up: 751 rounds to 800.
- 12) **Choice B is correct.** **(3.NF.A.2)** $\frac{2}{6}$ equals $\frac{1}{3}$ because both represent the same point on the line. You can simplify $\frac{2}{6}$ to $\frac{1}{3}$.
- 13) **Choices A and C are correct.** **(3.OA.D.8)** Step 1: Total boxes: $60 \div 6 = 10$ boxes, so A is true. Step 2: Figures sold: $5 \times 6 = 30$ figures, so B is false. The remaining figures are $60 - 30 = 30$, so C is true. D is false because each box has 6 figures, and E is false because 30 figures remain.
- 14) **Choice D is correct.** **(3.OA.A.4)** Think: $42 \div 7 = 6$, so the unknown is 6. Check: $6 \times 7 = 42$.
- 15) **Choice D is correct.** **(3.MD.C.7)** Area = rows \times columns = $4 \times 5 = 20$ square units.
- 16) **Choice C is correct.** **(3.MD.C.5b)** Count one row of unit squares: 6 squares. Check: 4 rows \times 6 per row = 24 total. So there are 6 unit squares in each row.
- 17) **The correct answer is 9 pencils.** **(3.MD.B.4)** Add all X's: $2 + 1 + 3 + 2 + 1 = 9$ pencils total.
- 18) **Choice D is correct.** **(3.OA.A.1)** The picture shows 4 columns with 2 circles in each column. This is 4 groups of 2, so $4 \times 2 = 8$.
- 19) **The correct answer is 0 right angles.** **(3.G.A.1)** A trapezoid can have no right angles.
- 20) **Choice A is correct.** **(3.G.A.2)** $\frac{1}{4}$ of a bar divided into 4 equal parts is 1 part.
- 21) **The correct answer is 6.** **(3.OA.A.2)** $30 \div 5 = 6$.
- 22) **Choice B is correct.** **(3.NF.A.2a)** Larger denominators give smaller fractions. $\frac{1}{8} < \frac{1}{4} < \frac{1}{2}$.
- 23) **Choice A is correct.** **(3.MD.C.7c)** The distributive property lets us split the rectangle into two smaller parts and add their areas.
- 24) **Choice C is correct.** **(3.MD.A.2)** Add: $5 + 2 = 7$ kg.
- 25) **Choice A is correct.** **(3.NF.A.1)** Rectangle A is divided into 4 equal parts with 1 shaded, which is $\frac{1}{4}$. Rectangle B has unequal parts, so it does not show $\frac{1}{4}$.
- 26) **Choice A is correct.** **(3.OA.A.3)** Divide: $20 \div 4 = 5$ cars per row.
- 27) **Choice A is correct.** **(3.MD.C.5a)** A unit square has side length 1 unit. If measured in inches, that is 1 in \times 1 in = 1 square inch.
- 28) **Choice B is correct.** **(3.MD.B.3)** Red: 4 stars \times 2 = 8. Blue: 2 stars \times 2 = 4.
- 29) **Choice A is correct.** **(3.OA.B.6)** $21 \div 3 = \square$ asks: $\square \times 3 = 21$. Since $7 \times 3 = 21$, the answer is 7.
- 30) **Choice B is correct.** **(3.MD.C.7d)** Add the parts: $20 + 15 = 35$ square units.



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Hi, Math Inventor!

◇ 8 practice tests. 8 chances to invent new ways to think. You tried things. You changed them. You made your math brain stronger! ◇

★ **Inventors know:** the first try isn't always the best try. Sometimes you fix it. Sometimes you start over. You did all of that! ★

Inventor's Workshop

- **Sketch Pad:** Full of ideas!
- **Toolbox:** Lots of math strategies.
- **Workbench:** Neat and organized.
- **Brave Mind:** You try new things.

Inventor tip: on test day, if your first try doesn't work, switch tools. Inventors don't get stuck on one tool. Pick the right one for the job!

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

Jay Daie

Your Math Inventor

PRACTICE TODAY. MASTER TOMORROW.

This book is designed to help **Grade 3** students strengthen their math skills through focused practice and real progress.

- ✓ 8 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success



EACH PRACTICE TEST INCLUDES:



Standards-
Aligned
Questions



Variety of
Question
Types



Real-World
Math
Applications



Step-by-Step
Progress
Tracking



Build Skills
and Boost
Confidence

COVERS ALL ESSENTIAL TOPICS

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- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Number Patterns
- ✓ Word Problems
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