

6

Maine Through Year Assessment

GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Practice with
Review, Answer Keys, and Explanations



6 Full-Length
Practice Tests



Detailed Answer Keys
and Explanations



Master Skills.
Boost Scores.
Succeed!

6 Maine Through Year Assessment Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Six complete 30-question practice labs 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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Welcome to the Six Skill Labs

Six full tests, six focused resets, and a stronger Grade 3 problem solver



Notice the pattern. Choose a tool. Explain the answer.

To the Grade 3 Math Builder

This book gives you six practice labs for the Maine Through Year Assessment. Each lab is a complete 30-question test, so students can practice accuracy, stamina, and clear mathematical thinking.

Maine brings rocky coastlines, pine woods, lighthouse beams, and harbor charts. Strong math uses that same care: read the task, select a strategy, build the solution, and use patient steps when the path is not obvious.

Decode

Find the question, the units, and the useful numbers.

Design

Use an equation, array, number line, graph, or sketch.

Confirm

Make sure the answer matches the question.

Six-lab promise: I will work with patience, show useful thinking, and treat corrections as part of learning.

How to Use This Book

A six-lab routine for steady Grade 3 growth

Use one practice lab at a time. The goal is not only to finish more pages. The goal is to finish, review, repair, and bring a smarter habit to the next test. For Maine students, each lab is a short route through rocky coastlines, pine woods, lighthouse beams, and harbor charts: steady, alert, and ready for the next clue.

1. **Warm up.** Skim the reference materials and remind yourself of common tools.
2. **Take one test.** Work steadily and mark problems that need a second look.
3. **Check answers.** Use the compact answer keys first.
4. **Read explanations.** Study missed items and any lucky guesses.
5. **Redo two problems.** Rewrite the work cleanly without peeking.
6. **Set the next lab goal.** Choose one skill or habit to improve.

Best review habit: A mistake is most useful when you can say why it happened and what you will do differently next time.



What Is Inside?

Six complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–6	Solve six different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read why each answer works.	Turn missed items into a clear next step.
Standards Reference	See how Maine Grade 3 standards connect to practice.	Understand the skills behind the questions.

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. This gives students practice with quick decisions, careful reading, and short written math answers for the Maine Through Year Assessment path.



Scan me!
For more practice
& answers

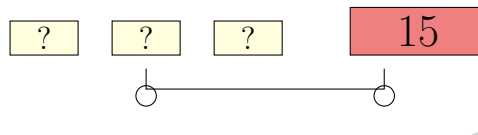
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1) A rectangular picture has an area of 35 square centimeters. Which dimensions could make this area?

- A. 5 cm and 7 cm C. 4 cm and 8 cm
 B. 5 cm and 6 cm D. 6 cm and 6 cm

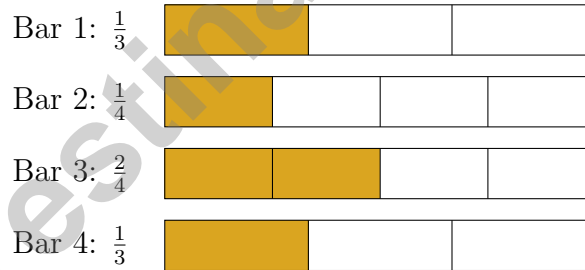
2) A balance scale shows 3 equal weights on one side and 15 on the other. Each weight is the same. What is the unknown weight?



$$\square \times 3 = 15$$

- A. 7 C. 4
 B. 6 D. 5

3) Look at the bars. Which pair shows the same-size shaded region?



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

4) A chef estimates the mass of three items before weighing them: an apple (about 150 g), a bread roll (about 80 g), and a pat of butter (about 20 g). Which is the BEST estimate of the total mass?

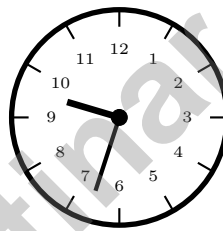
- A. 50 g C. 250 g
 B. 150 g D. 400 g

5) Which of these is *NOT* a valid number that rounds to 300 when rounded to the nearest 100?

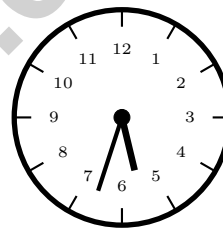
- A. 249 C. 325
 B. 301 D. 349

6) Which clock shows 9 : 33?

Clock A



Clock B



- A. Clock A C. Neither
 B. Clock B D. Both

7) A picture graph shows apples in baskets. The key says each apple symbol represents 5 apples. Basket A has 2 symbols and Basket B has 4 symbols. How many apples are there in total in both baskets?



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& answers

1) Which of these shows a complete fact family for 3, 7, and 21?

- A. $3 \times 7 = 21$; $21 \div 3 = 7$
 D. $3 \times 7 = 21$; $7 \times 3 = 21$; $21 \div 3 = 7$;
 B. $7 - 3 = 4$; $21 \div 4 = 5$
 $21 \div 7 = 3$
 C. $3 + 7 = 10$; $21 - 7 = 14$

2) If a number line from 0 to 1 has 8 equal parts, how far is the fifth tick from 0?

- A. $\frac{1}{8}$
 C. $\frac{5}{8}$
 B. $\frac{4}{8}$
 D. $\frac{8}{8}$

3) The bar shows $\frac{8}{4}$. How many whole units?



- A. 1 whole
 C. 4 wholes
 B. 2 wholes
 D. 8 wholes
- 4) Noah has a rectangular piece of paper. It is 9 inches long and 2 inches wide. If he covers it with 1-inch by 1-inch unit squares, how many will he need?

- A. 11 unit squares
 C. 18 unit squares
 B. 14 unit squares
 D. 20 unit squares

5) A rectangular field is 9 meters long and 5 meters wide. How many square meters is the field?

- A. 14 square meters
 C. 40 square meters
 B. 45 square meters
 D. 28 square meters



6) What is 147 rounded to the nearest 10?

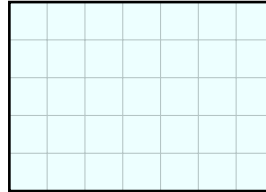
A. 140

C. 150

B. 147

D. 200

7) This grid shows a rectangle.



What is the area in square units?

A. 25 sq units

C. 35 sq units

B. 30 sq units

D. 40 sq units



8) 4 units

What is the area of the rectangle?

A. 7 sq units

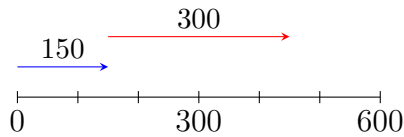
C. 14 sq units

B. 12 sq units

D. 24 sq units



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& answers



1)

Using the number line, what is $150 + 300$?

- A. 400 C. 500
 B. 550 D. 450

2) Which number sentence matches “How many 5-packs of pencils are in 25 pencils?”

- A. $25 + 5$ C. 5×25
 B. $5 - 25$ D. $25 \div 5$

3) Which of these does NOT show the associative property?

- A. $(2 \times 3) \times 4 = 2 \times (3 \times 4)$ C. $5 \times 2 = 2 \times 5$
 B. $(5 \times 2) \times 3 = 5 \times (2 \times 3)$ D. $(3 \times 3) \times 2 = 3 \times (3 \times 2)$

4) Look at this pattern: 5, 10, 15, 20, 25, 30.

Which rule describes this pattern?

- A. Add 3 each time C. Double the number
 B. Add 10 each time D. Add 5 each time (skip count by 5)

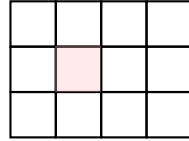
5) A rectangle’s length is 12 cm. Its width is 3 cm. What is the perimeter?

- A. 15 cm C. 30 cm
 B. 36 cm D. 72 cm



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& answers

- 6) Look at this shape made of unit squares. One square is shaded pink to help you see it:

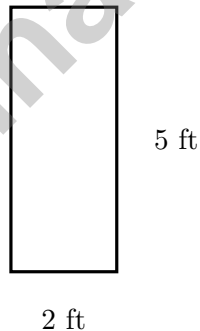


How many distinct unit squares cover the shape?

- A. 11 unit squares C. 13 unit squares
 B. 12 unit squares D. 24 unit squares
- 7) What number makes the equation true?

$$\square \times 4 = 28$$

- A. 6 C. 24
 B. 32 D. 7



8)

A vertical rectangle is 2 feet wide and 5 feet tall. What is the area?

- A. 7 sq ft C. 15 sq ft
 B. 10 sq ft D. 20 sq ft



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 A is correct.** **(3.MD.C.6)** $5 \times 7 = 35$ sq cm. The other choices do not equal 35.
- 2) **Choice D is correct.** **(3.OA.A.4)** Divide: $15 \div 3 = 5$. Each unknown weight is 5. Check: $5 \times 3 = 15$.
- 3) **Choice A is correct.** **(3.NF.A.3a)** Both Bar 1 and Bar 4 show $\frac{1}{3}$ shaded. They represent the same amount.
- 4) **Choice C is correct.** **(3.MD.A.2)** Estimate: $150 + 80 + 20 \approx 250$ g. This tests Grade 3 estimation skill.
- 5) **Choice A is correct.** **(3.NBT.A.1)** Numbers from 250 to 349 round to 300. Choice A (249) has tens digit $4 < 5$, so it rounds to 200, not 300. The other choices are all within the range 250–349.
- 6) **Choice A is correct.** **(3.MD.A.1)** At 9 : 33, the minute hand points to 33 minutes, just past the 6. The hour hand is between 9 and 10. Clock A shows this correctly.
- 7) **The correct answer is 30 apples.** **(3.MD.B.3)** Basket A: $2 \times 5 = 10$ apples. Basket B: $4 \times 5 = 20$ apples. Total: $10 + 20 = 30$ apples.
- 8) **Choice A is correct.** **(3.NF.A.3c)** 3 thirds make 1 whole. 9 thirds = $9 \div 3 = 3$ wholes.
- 9) **Choice D is correct.** **(3.MD.C.5a)** The grid is 5 units wide and 3 units tall: $5 \times 3 = 15$ unit squares.
- 10) **Choice A is correct.** **(3.NF.A.3b)** Both strips show the same amount shaded. $\frac{2}{4} = \frac{1}{2}$ because $\frac{1 \times 2}{2 \times 2} = \frac{2}{4}$.
- 11) **Choice D is correct.** **(3.OA.A.1)** The picture shows 3 columns with 4 rectangles in each column. So $3 \times 4 = 12$ rectangles.
- 12) **Choice D is correct.** **(3.OA.D.8)** Step 1: Pencils: $3 \times 7 = 21$ items. Step 2: Pens: $4 \times 2 = 8$ items. Total: $21 + 8 = 29$ items.
- 13) **Choice D is correct.** **(3.NBT.A.3)** $7 \times 30 = 210$ (multiply $7 \times 3 = 21$, then multiply by 10). Quinn wrote 7 and 30 together as 730 instead. The correct answer is 210.
- 14) **Choice A is correct.** **(3.NF.A.2b)** $\frac{5}{6}$ is much closer to 1 (the right end) than $\frac{1}{6}$ is.
- 15) **Choice B is correct.** **(3.NF.A.3)** $\frac{4}{8}$ and $\frac{1}{2}$ both equal half of a whole.
- 16) **The correct answer is 4 right angles.** **(3.G.A.1)** A square has 4 right angles.
- 17) **Choices A and B are correct.** **(3.NF.A.3d)** With the same numerator 1, smaller denominators give larger fractions. Thirds and fourths are smaller than halves. C equals one whole (larger), D equals $\frac{1}{2}$ (not less), and E is greater than $\frac{1}{2}$.
- 18) **Choice D is correct.** **(3.OA.A.3)** Multiply: 7 bags \times 3 kg per bag = 21 kg of flour.
- 19) **Choice B is correct.** **(3.OA.C.7)** A fact family uses the same three numbers in multiplication and division. Only choice B has a true related fact: $4 \times 6 = 24$ and $24 \div 4 = 6$.
- 20) **Choice A is correct.** **(3.G.A.2)** The circle is divided into 3 equal parts by lines from the center. The shaded part is one third of the circle.
- 21) **Choice C is correct.** **(3.MD.C.7b)** Area = width \times height = $11 \times 5 = 55$ square feet.
- 22) **Choice A is correct.** **(3.OA.B.6)** To solve $42 \div 7 = \square$ using the unknown-factor strategy, we ask: $\square \times 7 = 42$. Since $6 \times 7 = 42$, the missing factor is 6. Options B, C, D produce different products, not 42.
- 23) **Choice B is correct.** **(3.MD.C.7c)** One part is $4 \times 10 = 40$. Total is 60. So the other part has area $60 - 40 = 20$.
- 24) **The correct answer is 63.** **(3.OA.B.5)** The commutative property gives $9 \times 7 = 63$.
- 25) **Choice A is correct.** **(3.NF.A.2a)** When the interval from 0 to 1 is split into 5 equal parts, each part has length $\frac{1}{5}$.
- 26) **Choice A is correct.** **(3.NF.A.1)** Two unit fractions of $\frac{1}{8}$ add up to $\frac{1}{8} + \frac{1}{8} = \frac{2}{8}$.
- 27) **Choice D is correct.** **(3.NBT.A.2)** Subtract: ones ($2 - 8$ requires regrouping, so $12 - 8 = 4$), tens ($3 - 1 = 2$), hundreds ($5 - 2 = 3$). Answer: 324.
- 28) **Choice C is correct.** **(3.MD.C.5)** To cover the inside area of a square frame with side 5 inches, you need $5 \times 5 = 25$ square inches of paper.
- 29) **Choice D is correct.** **(3.OA.A.2)** $15 \div 3 = 5$ because $3 \times 5 = 15$. There are 5 groups of 3 in 15, not 4.
- 30) **Choice A is correct.** **(3.OA.D.9)** Row A shows 3, 6, 9, 12, which are multiples of 3. Row B shows multiples of 5.



Hi, Hero!

◇ Once there was a Grade 3 student who took 6 practice tests. At first, the math was tricky. But this student kept showing up, kept trying, and kept learning. By the end, the student became a math hero. That hero is you! ◇

★ **Storytellers know:** every story has a hard middle. The hard middle is where heroes grow. You lived your hard middle. Your story ends with confidence! ★

Your Hero Toolkit

- **Brave Heart:** You try hard problems.
- **Sharp Mind:** You think carefully before you act.
- **Steady Hand:** You write neatly and check.
- **Kind Spirit:** You are patient with yourself.

Storyteller tip: on test day, remember the hero you became. The chapters before today made you stronger. Now write your best chapter!

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

Jay Daie

Your Math Storyteller

BUILD CONFIDENCE. MASTER MATH. ACHIEVE SUCCESS!



This **Grade 3 Math Practice Tests** book is the perfect companion for students who want to strengthen their math skills and excel in school. With **6** full-length practice tests designed to reflect real test formats, students get the practice they need to understand key concepts, build problem-solving skills, and tackle any challenge with confidence.

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- ✓ Perimeter, Area & Volume
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