

+
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10

=
Maine
Through Year
Assessment



GRADE 3

△
MATH
◻

÷
PRACTICE TESTS

✓ Complete Standards Review

✓ Skill Practice

✓ Word Problems
and Answer Key

2 × 7 + 4



★ ★ ★
PREPARE
PRACTICE
SUCCEED!
★ ★ ★



Aligned to
Grade 3 Math
Standards



Build Confidence
and Master
Math Skills



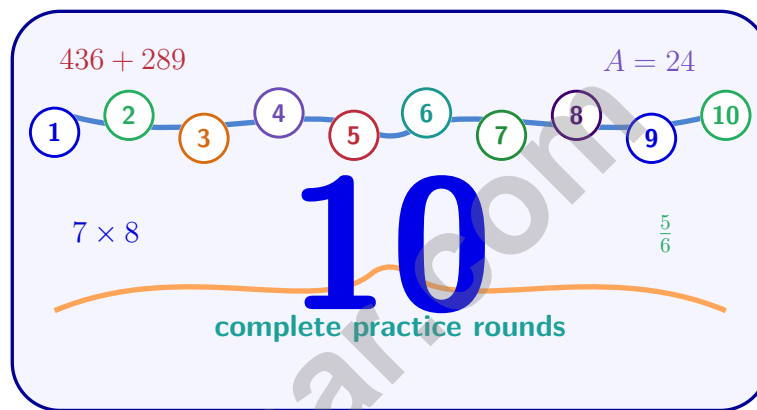
Test-Taking
Practice for
Success



Answer Key
for Easy
Review

10 Maine Through Year Assessment Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten complete 30-question Grade 3 practice rounds for Through Year Assessment, built around pine forests, lighthouse beams, and patient checking, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Maine Math Explorer!

Ten steady rounds on the Pine Tree State math route

This book gives you ten full Grade 3 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?

Ten tests, 300 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 4–6	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Test 10	Final round to show growth across the whole Maine book.
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.



Scan me!
For more practice
& answers

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5) A teacher has 20 pencils. She wants to make packets with 5 pencils each. How many packets can she make?

A. 3

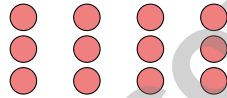
C. 5

B. 25

D. 4

6) What is 4×50 ?

7)



How many circles are in this picture?

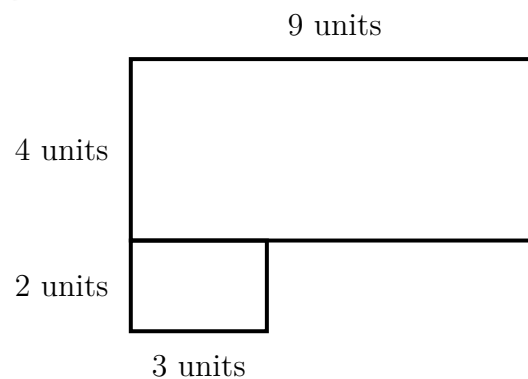
A. 7 circles

C. 9 circles

B. 10 circles

D. 12 circles

8) Eli has an L-shaped rug. The longer side is 9 units by 4 units. The shorter side is 3 units by 2 units. What is the total area of the rug?



A. 36 sq units

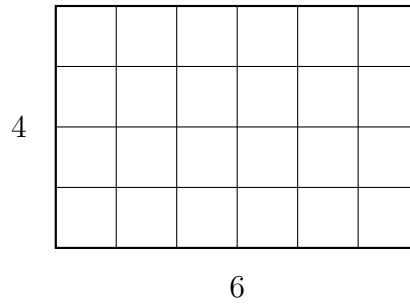
C. 42 sq units

B. 6 sq units

D. 216 sq units



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9)

The rectangle is tiled with unit squares. How many unit squares are there?

 A. 10 C. 24 B. 20 D. 48

10) Sam colors $\frac{3}{6}$ of a shape. Write an equivalent fraction.



1) Round 734 to the nearest 10.

A. 730

C. 740

B. 734

D. 800

2) A line plot shows plant stem lengths in centimeters: 12, $12\frac{1}{4}$, $12\frac{1}{2}$, $12\frac{3}{4}$, 13. The counts are: 3 at 12 cm, 1 at $12\frac{1}{4}$ cm, 0 at $12\frac{1}{2}$ cm, 2 at $12\frac{3}{4}$ cm, and 1 at 13 cm. What is the range?

A. $\frac{1}{4}$ cm

C. 1 cm

B. $\frac{3}{4}$ cm

D. 2 cm

3) A rectangle has length 6 units and width 2 units. It has 6 rows with 2 unit squares in each row. Using repeated addition: $2 + 2 + 2 + 2 + 2 + 2 = ?$

A. 8 sq units

C. 10 sq units

B. 12 sq units

D. 14 sq units

4) What is 8×60 ?

Hundreds	Tens	Ones
4	8	0

A. 68

C. 480

B. 86

D. 4800

5) Look at products of 4: 4, 8, 12, 16, 20.

Why are all these numbers even?

A. Because 4 is even, and every multiple of an even number is even

C. Because 4 is odd

B. Because they go up by 4 each time

D. Because all products are less than 25



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& answers

- 6) If a number line from 0 to 3 is divided into thirds, how many thirds tall is the entire line?

- 7) Look at this problem. Which property of multiplication lets you group the factors differently?

$$(2 \times 3) \times 4 = 2 \times (3 \times 4)$$

- A. Distributive property
- B. Commutative property
- C. Identity property
- D. Associative property

- 8) Which fraction is equivalent to $\frac{1}{3}$?

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

- 9) Write 3 as a fraction with denominator 1.

- 10) Which shape is always a rhombus, but NOT always a square?

- A. Rectangle
- B. Rhombus with angles that are not right angles
- C. Trapezoid
- D. Pentagon



1) Round 283 to the nearest 10.

A. 280

C. 290

B. 283

D. 300

2) Which product is greater, 7×8 or 8×7 ?

A. 7×8 is greater

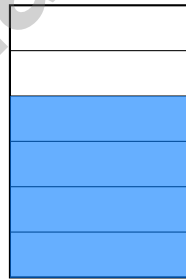
C. They are equal

B. 8×7 is greater

D. You cannot tell without multiplying

3) Find $7 \times 9 + 5$.

4) A rectangle is divided into 6 equal parts with all horizontal lines. Eli shades 4 parts. What fraction does he NOT shade?



A. $\frac{2}{6}$

C. $\frac{1}{6}$

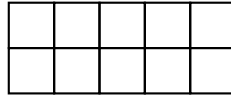
B. $\frac{4}{6}$

D. $\frac{5}{6}$



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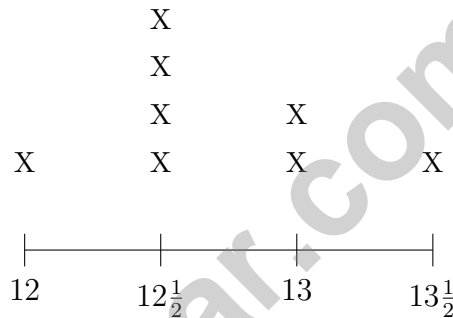
5) This shape shows a 2×5 rectangle:



What is the total area?

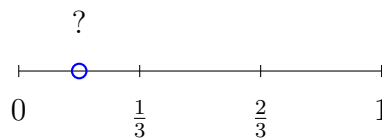
- A. 14 sq units
- B. 7 sq units
- C. 20 sq units
- D. 10 sq units

6) A line plot shows ruler lengths in inches: $12, 12\frac{1}{2}, 13, 13\frac{1}{2}$.



What is the most frequent ruler length?

- A. 12 inches
- B. $12\frac{1}{2}$ inches
- C. 13 inches
- D. $13\frac{1}{2}$ inches



7)

The blue dot is halfway between 0 and $\frac{1}{3}$. Which comparison is true?

- A. The dot $> \frac{1}{3}$
- B. The dot $< \frac{1}{3}$
- C. The dot $= \frac{2}{3}$
- D. The dot $= 0$

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 C is correct.** **(3.NBT.A.1)** For 367, look at the tens digit (6). Since $6 \geq 5$, round the hundreds digit up: 367 rounds to 400.
- 2) **Choice A is correct.** **(3.NF.A.2a)** Divided in half means 2 equal parts. The first tick is at the unit fraction $\frac{1}{2}$.
- 3) **Choice C is correct.** **(3.MD.B.4)** Add all X's: $2 + 3 + 2 + 1 = 8$ pencils total.
- 4) **Choice D is correct.** **(3.NBT.A.2)** Ones: $8 + 4 = 12$ (write 2, carry 1). Tens: $7 + 5 + 1 = 13$ (write 3, carry 1). Hundreds: $4 + 2 + 1 = 7$. Answer: 732.
- 5) **Choice D is correct.** **(3.OA.A.2)** This is a measurement division: How many groups of 5 fit in 20? $20 \div 5 = 4$.
- 6) **The correct answer is 200.** **(3.NBT.A.3)** Multiply $4 \times 5 = 20$, then add one zero: $4 \times 50 = 200$.
- 7) **Choice D is correct.** **(3.OA.A.1)** The picture shows 4 columns with 3 circles in each column. So $4 \times 3 = 12$ circles.
- 8) **Choice C is correct.** **(3.MD.C.7d)** Longer: $9 \times 4 = 36$ sq units. Shorter: $3 \times 2 = 6$ sq units. Total: $36 + 6 = 42$ sq units.
- 9) **Choice C is correct.** **(3.MD.C.7a)** Count rows and columns: $6 \times 4 = 24$ square units. Bridge from visual tiling to multiplication.
- 10) **The correct answer is $\frac{1}{2}$.** **(3.NF.A.3)** $\frac{3}{6}$ equals half of a whole, so the equivalent fraction is $\frac{1}{2}$.
- 11) **Choice A is correct.** **(3.MD.B.3)** Tom: $3 \times 10 = 30$. Sue: $2 \times 10 = 20$. Difference: $30 - 20 = 10$.
- 12) **Choice B is correct.** **(3.OA.D.8)** Step 1: Cookies per bag: $42 \div 6 = 7$ cookies. Step 2: Remaining bags: $6 - 2 = 4$ bags. Total in remaining: $7 \times 4 = 28$ cookies. Choice B is clearest with parentheses.
- 13) **Choice B is correct.** **(3.NF.A.3c)** Any whole number n equals $\frac{n}{1}$. So $7 = \frac{7}{1}$.
- 14) **Choice C is correct.** **(3.NF.A.3a)** $\frac{2}{3} = \frac{4}{6}$ because both represent two-thirds of the board.
- 15) **Choices B and E are correct.** **(3.OA.B.5)** This problem shows the associative property. When you group factors differently, like $(4 \times 6) \times 2$ or $4 \times (6 \times 2)$, you still get the same product. Option B states the name correctly, and E restates what associative means. A is commutative (switching order), C is distributive (breaking apart a sum), and D relates to multiplying by 1.
- 16) **Choice B is correct.** **(3.NF.A.1)** $\frac{1}{2} + \frac{1}{2} = \frac{2}{2} = 1$ whole. So 2 unit fractions of $\frac{1}{2}$ make a whole.
- 17) **The correct answer is 56 unit squares.** **(3.MD.C.5b)** Count the rows: 8 rows. Count across: 7 unit squares per row. Total: $7 + 7 + 7 + 7 + 7 + 7 + 7 + 7 = 56$ unit squares.
- 18) **Choice C is correct.** **(3.G.A.1)** A square is a special type of rectangle. Since a square has 4 right angles, it meets the definition of a rectangle.
- 19) **Choice B is correct.** **(3.MD.C.6)** 8 rows \times 6 tiles per row = 48 square inches.
- 20) **Choice C is correct.** **(3.MD.C.5a)** A 4×4 square needs $4 \times 4 = 16$ unit squares (tiles of 1 foot by 1 foot).
- 21) **Choice D is correct.** **(3.OA.C.7)** $5 \times 9 = 45$. Count by 5s: 5, 10, 15, 20, 25, 30, 35, 40, 45.
- 22) **Choice B is correct.** **(3.MD.C.7b)** Area = length \times width = $8 \times 2 = 16$ square feet.
- 23) **Choice B is correct.** **(3.NF.A.3b)** Multiply numerator and denominator by 2: $\frac{1 \times 2}{3 \times 2} = \frac{2}{6}$.
- 24) **Choice B is correct.** **(3.NF.A.3d)** Two halves is one whole. Two sixths is less than one whole. So $\frac{2}{2} > \frac{2}{6}$.
- 25) **Choice B is correct.** **(3.MD.C.7)** The grid has 3 columns and 6 rows. Area = $3 \times 6 = 18$ square units. You can also add: $3 + 3 + 3 + 3 + 3 + 3 = 18$ (six rows of three).
- 26) **Choice D is correct.** **(3.OA.A.4)** Multiply: $4 \times 6 = 24$. Check: $24 \div 6 = 4$.
- 27) **Choice D is correct.** **(3.OA.A.3)** There are 3 equal groups of 8 marbles. Multiply: $3 \times 8 = 24$ marbles.
- 28) **Choice B is correct.** **(3.NF.A.2)** The first tick mark on a number line divided into 2 equal parts is $\frac{1}{2}$.
- 29) **Choice B is correct.** **(3.MD.C.5)** Multiply length by width: $9 \times 2 = 18$ square feet.
- 30) **Choice A is correct.** **(3.MD.C.7c)** Total is $8 \times 5 = 40$. One part is $8 \times 3 = 24$. Other part is $40 - 24 = 16$, which is 8×2 .



Hi, Math Champion!

◇ You trained hard! 10 full practice tests is real practice. Your math game is way better now than when you started. ◇

★ **Coach's truth:** kids who practice get better. You practiced. You got better. That's how it works!

★

Your Game Stats

- **Energy:** HIGH! You can finish a long test.
- **Smart Plays:** You know lots of strategies.
- **Calm Head:** You stay cool with hard problems.
- **Game-Day Ready:** You feel strong and prepared.

Coach's tip: the night before the test, get good sleep. Eat a good breakfast. Bring a sharp pencil. Trust your training!

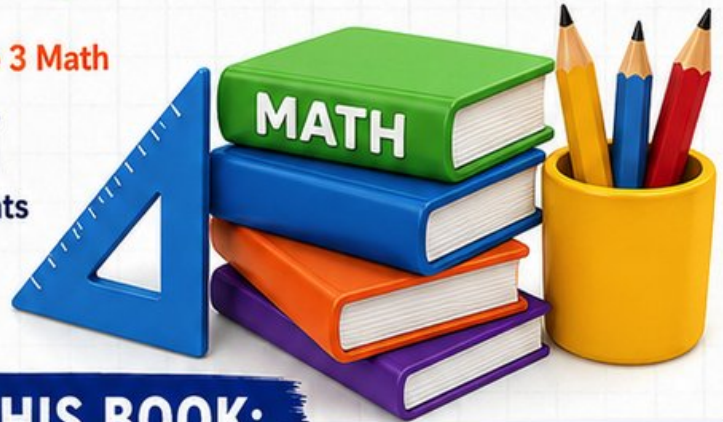
If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Math Coach

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