

7 Maine

Through Year Assessment

7
PRINTED
TESTS

+
2
ONLINE
TESTS

Grade 6 MATH

PRACTICE TESTS

Use these two additional online practice tests for extra review after the printed tests in this book.

Standards-Aligned *Steady Southern*
Problem Solving for Comprehensive
Assessment Program



7 Full-Length
Printed Tests



Standards-Aligned
Math Practice



Detailed Answer Keys
and Explanations



Build Confidence.
Achieve Success.



You've
Got
This!



PREPARE
PRACTICE
SUCCEED



PRACTICE
WITH PURPOSE



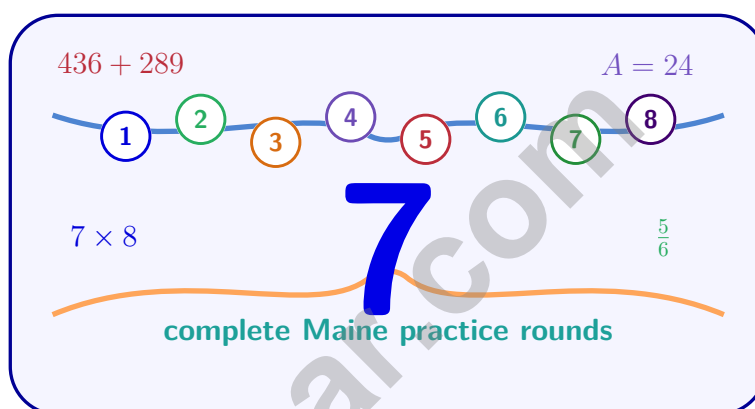
STRENGTHEN
MATH SKILLS



REVIEW, IMPROVE,
AND SUCCEED

7 Maine Through Year Assessment Grade 6 Math Practice Tests

Standards-Aligned Through-Year Coastal Clarity for Maine Through Year Assessment



Seven complete 40-question Grade 6 practice rounds for Through Year Assessment, built for through-year coastal clarity with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



Copyright ©

Testinar Inc



Published by Testinar Inc

Testinar.com

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the author, except in the case of brief quotations embodied in critical reviews and certain other noncommercial uses permitted by copyright law, including Section 107 or 108 of the 1976 United States Copyright Act.

This publication is independently produced and has no official connection to any state, district, or national testing program.

Test names and organizational names used herein are the property of their respective trademark holders.



Copyright ©

Welcome, Maine Math Explorer!

Eight focused rounds using through-year coastal clarity

This book gives you seven full Grade 6 practice tests for Through Year Assessment. Each round uses rocky coastlines, forest roads, and careful year-round review as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your Maine Practice Promise

Anchor each answer in evidence: read labels, build the model, and verify the result.

Read

Plan

Check

How to Use This Book

A seven-session routine for through-year coastal clarity

1. **Preview the skills.** Scan the quick review pages before beginning the first round.
2. **Work in order.** Take one 40-question test at a time in a quiet place.
3. **Mark confidence.** Put a small star beside problems where your plan felt strong.
4. **Correct actively.** Retry missed items before reading the full explanation.
5. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.

Maine review rhythm: Use each test as a check-in, then let corrections guide the next review session.



What Is Inside?

Eight Through Year Assessment tests, 320 questions, and a full review path

Part	What You Will Practice
Tests 1–3	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 4–6	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 7	Final stamina round for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

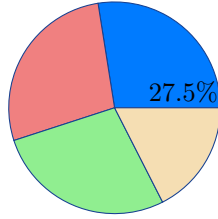
The tests are mixed on purpose. Through-year coastal clarity means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!
For more practice
& answers

Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	30
★ Practice Test 3	_____	46
★ Practice Test 4	_____	61
★ Practice Test 5	_____	75
★ Practice Test 6	_____	91
★ Practice Test 7	_____	106
Practice Test Answer Keys	_____	122
Practice Test Answers and Explanations	_____	127



5)

A survey asked 360 people about favorite season. The circle graph shows 27.5% prefer summer. How many people prefer summer?

- A. 99 C. 108
 B. 90 D. 117

6) Which ratio is equivalent to 5 : 15?

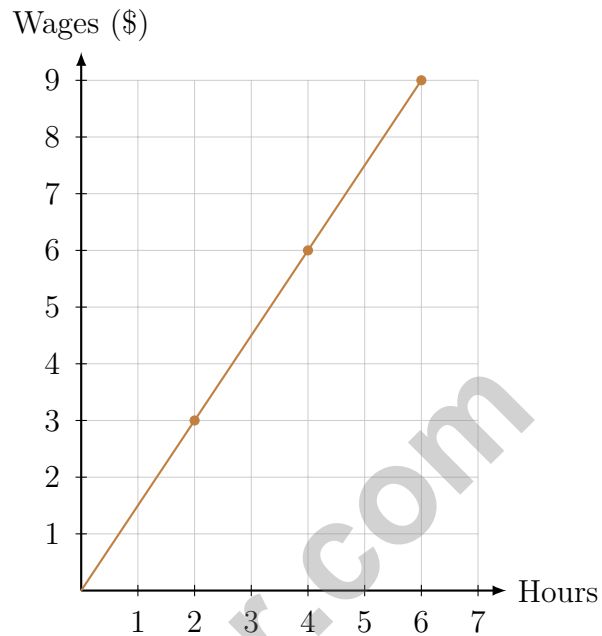
- A. 1 : 2 C. 10 : 30
 B. 5 : 10 D. 1 : 3

7) Out of 250 students at a school, 30% participate in sports. How many students participate in sports?

- A. 50 C. 75
 B. 70 D. 100



- 8) The graph shows the relationship between hours worked and wages earned. Which statement is true?

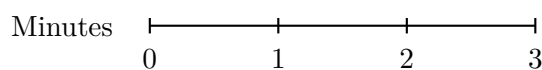
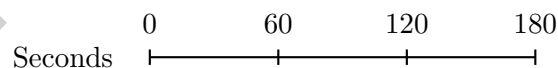


- A. At 2 hours, wages are \$6
- B. The hourly wage is \$2.50
- C. At 4 hours, wages are \$6
- D. The hourly wage is \$2
- 9) Two triangles: Triangle P has base 18 cm and height 4 cm. Triangle Q has base 6 cm and height 12 cm. What is the difference in their areas?
- A. 0 cm^2
- B. 12 cm^2
- C. 24 cm^2
- D. 36 cm^2



Scan me!
For more practice
& answers

- 1) A student calculated the distance between $(3, -2)$ and $(7, -2)$ and got $3 - 7 = -4$ units. What error did the student make?
- A. The student forgot to use absolute value
- B. The student subtracted the y -coordinates instead of the x -coordinates
- C. The student used the wrong formula
- D. The student identified the wrong pair of points
- 2) The highest point in a state has an elevation of 6000 feet. The lowest point has an elevation of -500 feet. How many feet higher is the highest point than the lowest point?
- A. 5500 feet
- B. 6500 feet
- C. 5000 feet
- D. 6000 feet
- 3) A student wrote: "If $|-12| = 12$, then $|12| = -12$." Is this reasoning correct?
- A. Yes, they are opposite results
- B. Cannot be determined
- C. Yes, one is positive and one is negative
- D. No, absolute value is always non-negative; $|12| = 12$



4)

Using the double number line, how many seconds are in 2 minutes?

- A. 60 seconds
- B. 100 seconds
- C. 120 seconds
- D. 180 seconds



5) Casey earns \$500 per month. She spends \$200 on rent and \$100 on food, then saves 38% of what is left. How much does she save?

A. \$76

C. \$102

B. \$84

D. \$120

6) Divide $8,456 \div 56$ and determine the remainder.

A. 151 R 0

C. 151 R 0

B. 150 R 56

D. 152 R 24

7) Factor $12 + 20$ using the distributive property.

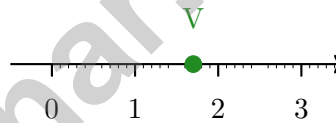
A. $4(3 + 5)$

C. $3(4 + 20)$

B. $2(6 + 10)$

D. $5(2 + 4)$

8) The number line below shows tick marks at tenths. Which decimal is at point V?



A. 1.5

C. 1.7

B. 1.6

D. 1.8

9) Simplify $7p + 2q - 3p + 5q$.

A. $10p + 3q$

C. $4p + 5q$

B. $7p + 7q$

D. $4p + 7q$



Scan me!
For more practice
& answers

1) A parallelogram has a base of 9 in and a height of 7 in. What is its area?

A. 16 in^2

C. 63 in^2

B. 32 in^2

D. 126 in^2

2) A track coach measures the sprint distance as 120 yards. What is this distance in feet?

A. 180 feet

C. 40 feet

B. 240 feet

D. 360 feet

3) What is the least integer that is at least 25?

4) On a number line, what is the position of the point halfway between -2 and 2 ?

A. -2

C. 1

B. 0

D. 2

5) A thermometer shows three temperatures: $-5^\circ F$, $-8^\circ F$, and $2^\circ F$. Order them from coldest to warmest.

A. $-5, -8, 2$

C. $-8, -5, 2$

B. $2, -5, -8$

D. $-8, 2, -5$



6) What is the result of $9 \times (-4)$?

A. 36

C. 5

B. -5

D. -36

7) Simplify the ratio 14 : 21.

A. 1 : 2

C. 3 : 2

B. 2 : 3

D. 14 : 21

8) A store sells pencils in packs where the ratio of mechanical to wooden is 1 : 4. If a pack has 5 mechanical pencils, how many wooden pencils are in the pack?

A. 4

C. 20

B. 9

D. 25

9) A recipe uses a ratio of 2 cups of flour to 3 cups of sugar. The table shows how much flour is needed for different amounts of sugar. What is the missing value?

Flour (cups)	Sugar (cups)
2	3
4	6
?	12

A. 6

C. 10

B. 8

D. 12

10) Ice must stay below 32°F . What is the greatest whole-number temperature below 32?



Scan me!
For more practice
& answers

Maine Through Year Assessment Practice Test Answer Keys

How to use this Maine Through Year Assessment answer section with a Grade 6 student:

1. check the answer first, then write one quick reason the choice is correct
2. mark questions to try again, especially the skills that feel connected to through-year coastal clarity
3. rework the problem before reading the full explanation, using this reminder:
Anchor each answer in evidence: read labels, build the model, and verify the result.

A calm Maine correction routine turns every missed item into useful practice. Use each test as a check-in, then let corrections guide the next review session.



Maine Practice Test Answers and Explanations

Review the seven printed Through Year Assessment tests with anchored, observant, and ready for the next checkpoint habits.

Practice Test 1 Answers and Explanations

- Choice A is correct.** **(6.NS.B.2)** $6,292 \div 34 = 185$ remainder 2. Since the remainder is small, it rounds down to 185.
- Choice B is correct.** **(6.SP.B.4)** Percentage = $\frac{40}{150} \times 100 = 26.7\%$.
- Choice B is correct.** **(6.NS.C.7b)** Red pens = 12. Total pens = 40. Probability = $\frac{12}{40} = \frac{3}{10}$.
- Choice A is correct.** **(6.SP.B.4)** Max = 63, Min = 45. Difference = $63 - 45 = 18$.
- Choice A is correct.** **(6.QR.EA.3)** 27.5% of 360 is $0.275 \times 360 = 99$ people.
- Choice D is correct.** **(6.RP.A.3)** A helpful way to check is to simplify. Divide both parts of $5 : 15$ by 5: $\frac{5}{5} : \frac{15}{5} = 1 : 3$.
- Choice C is correct.** **(6.RP.A.3c)** 30% of 250 = $0.30 \times 250 = 75$ students.
- Choice C is correct.** **(6.EE.C.9)** The graph includes the point (4, 6), so at 4 hours the wages are \$6. The slope is $\frac{6-3}{4-2} = \frac{3}{2} = 1.5$, so the hourly wage is \$1.50, not \$2.50 or \$2.
- Choice A is correct.** **(6.G.A.1)** Triangle P: $A = \frac{1}{2} \times 18 \times 4 = 36 \text{ cm}^2$. Triangle Q: $A = \frac{1}{2} \times 6 \times 12 = 36 \text{ cm}^2$. Difference: $36 - 36 = 0 \text{ cm}^2$.
- Choice D is correct.** **(6.G.A.3)** Area = $\frac{1}{2}(b_1 + b_2) \times h = \frac{1}{2}(6 + 4) \times 3 = \frac{1}{2}(10) \times 3 = 15$ square units.
- Choice D is correct.** **(6.G.A.4)** In a cross-pattern cube net, the faces on opposite sides of the center (left and right) fold to become opposite faces of the cube. The extension (face above the top of the cross) becomes opposite to the bottom face, not the top.
- Choice C is correct.** **(6.SP.A.2)** Order: 12, 14, 15, 16, 18, 19, 20. The median (4th of 7) is 16.
- The correct answer is 0.** **(6.NS.C.8)** All points on the x -axis have a y -coordinate of 0. For the negative x -axis specifically, the x -coordinate is negative but y is always 0.
- Choice C is correct.** **(6.SP.B.5)** Total students = 30, so the median is at position 15.5 (average of 15th and 16th values). Cumulative: 60–69 ($n = 5$), 70–79 ($n = 13$), 80–89 ($n = 23$). The 15th and 16th values fall in the 80–89 interval.
- Choice A is correct.** **(6.RP.A.3)** 3rd graders read approximately 4.8 books; kindergarteners read approximately 2.5 books. The difference is about $4.8 - 2.5 = 2.3$ books.
- Choice C is correct.** **(6.EE.A.2c)** Substitute $y = -4$: $-3(-4) = 12$ (negative times negative equals positive).
- The correct answer is 4.** **(6.NS.C.8)** The points share the same y -coordinate (3). The distance is $|6 - 2| = 4$ units.
- Choice A is correct.** **(6.EE.B.5)** Substitute $x = 3$ into the equation. Check: $\frac{3}{3} = 1$ is true.
- Choice D is correct.** **(6.EE.B.8)** The symbol \geq includes the boundary value, so we use a closed (filled) circle to show that -3 is part of the solution set.
- The correct answer is Both $|-13| = 13$ and $|13| = 13$ equal 13.** **(6.NS.C.7c)** A: $|-13| = 13 \checkmark$. C: $|13| = 13 \checkmark$. B: opposite of 13 is -13 . D: $-|13| = -(13) = -13$. E: $|-13| + |13| = 13 + 13 = 26$. So only A and C equal 13.
- Choice C is correct.** **(6.G.A.2)** Prism A: $V = 2 \times 3 \times 2.5 = 15 \text{ m}^3$. Prism B: $V = 2.5 \times 2 \times 3 = 15 \text{ m}^3$. Both equal 15 m^3 .
- Choice A is correct.** **(6.RP.A.3d)** Divide: $20 \div 8 = 2.5$ gallons.
- Choice D is correct.** **(6.QR.EA.1)** Rent to Food: $\$1200 : \$800 = 12 : 8 = 3 : 2$ (dividing both by 400).
- Choice C is correct.** **(6.NS.C.6c)** $|-1.2| = 1.2$ and $|1.3| = 1.3$ are not equal, so they are not equidistant from zero.
- The correct answer is 4.** **(6.NS.B.3)** $-8 - (-12) = -8 + 12 = 4$. Subtracting a negative integer is equivalent to adding its positive opposite.
- Choice C is correct.** **(6.EE.A.3)** Combine like terms: $(6c - 2c) + (4d + 3d) = 4c + 7d$.
- Choice C is correct.** **(6.SP.B.4)** Range = max - min = $98 - 55 = 43$ points.



Scan me!
For more practice
& answers

Hi, Math Champion!

◇ You trained hard! 7 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

MASTER TODAY. SUCCEED TOMORROW.

This Grade 6 Math Practice Tests book is designed to help students strengthen their math skills, master important concepts, and build the confidence they need to excel on comprehensive assessments.

With 7 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, develop problem-solving abilities, and reach their full potential.

Perfect for classroom use, homework, test preparation, and extra practice at home.



PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Building Confidence

★ PRACTICE TODAY.
SUCCEED TOMORROW.

WHAT STUDENTS WILL GAIN



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Deeper Understanding

Reinforce key concepts aligned with standards through meaningful practice.



Test Confidence

Become familiar with test formats and improve accuracy and speed.



Achieve Success

Build confidence and perform your best on test day.

TOPICS COVERED

- ✓ Ratios & Rates
- ✓ The Number System
- ✓ Expressions & Equations
- ✓ Geometry
- ✓ Fractions & Decimals
- ✓ Percents
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ And More!



2 ONLINE TESTS

Extra online practice to reinforce learning and build confidence.

MORE PRACTICE. GREATER RESULTS.

Give your child the tools needed to develop strong math skills, confidence, and a positive attitude toward learning.



7 FULL-LENGTH
PRINTED TESTS



STANDARDS-
ALIGNED PRACTICE



DETAILED ANSWER
KEYS & EXPLANATIONS