

8 Maine

Through Year Assessment

8
PRINTED
TESTS

+

2
ONLINE
TESTS

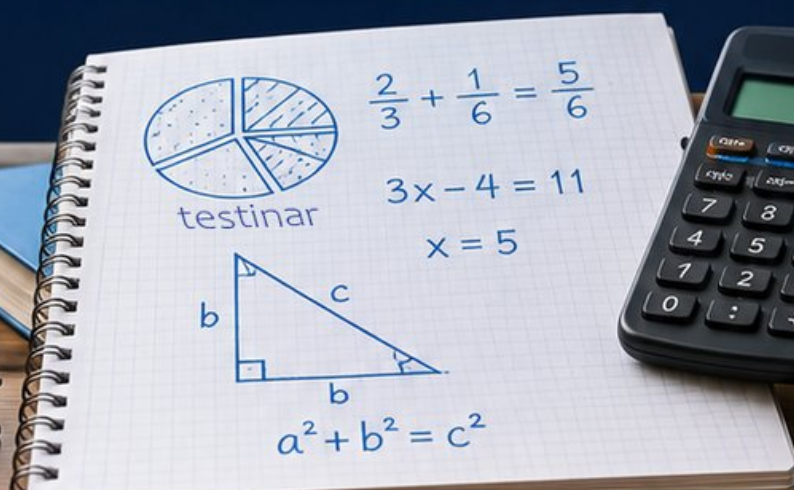
GRADE 6

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



BUILT FOR
ACAP SUCCESS



REALISTIC TESTS
& QUESTION TYPES



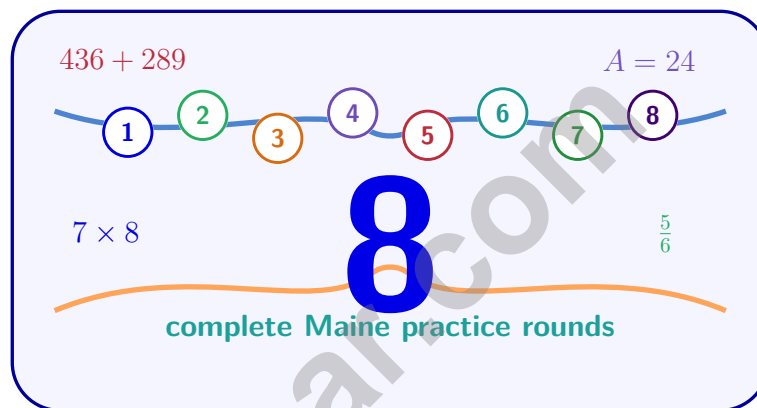
STRENGTHEN
MATH SKILLS



REVIEW, PRACTICE,
AND IMPROVE

8 Maine Through Year Assessment Grade 6 Math Practice Tests

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



Eight 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 eight 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 eight-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.
Tests 7–8	Final stamina rounds 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.

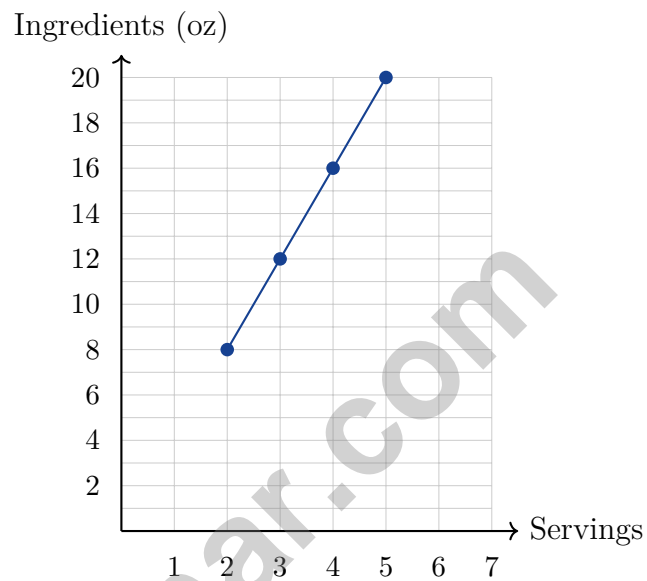


Scan me!
For more practice
& answers

Table of Contents

★ Practice Test 1	_____	15
★ Practice Test 2	_____	32
★ Practice Test 3	_____	50
★ Practice Test 4	_____	65
★ Practice Test 5	_____	80
★ Practice Test 6	_____	95
★ Practice Test 7	_____	110
★ Practice Test 8	_____	124
Practice Test Answer Keys	_____	144
Practice Test Answers and Explanations	_____	149

- 1) A graph shows the relationship between recipe servings and total ingredients. The line contains the points (2, 8), (3, 12), (4, 16), and (5, 20).
What is the amount of ingredients per serving?



- A. 2 oz per serving
- B. 8 oz per serving
- C. 6 oz per serving
- D. 4 oz per serving
- 2) What inequality matches this number line?



- A. $x > 6$
- B. $x < 6$
- C. $x \geq 6$
- D. $x \leq 6$



Scan me!
For more practice
& answers

3) A discount applies when you spend less than \$50. If d represents the amount you spend, which inequality is correct?

A. $d < 50$

C. $d > 50$

B. $d \leq 50$

D. $d \geq 50$

4) A babysitter charges \$12 per hour. If the sitter works for h hours, the total earnings are $e = 12h$. When this relationship is graphed with hours on the horizontal axis and earnings on the vertical axis, what earnings value does the line cross the vertical axis at?

A. 0

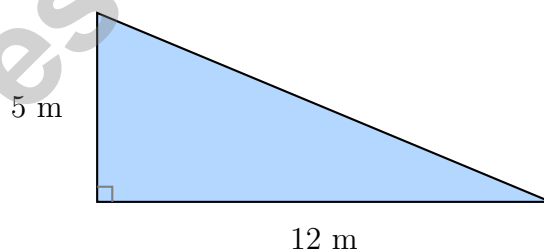
C. 6

B. 12

D. 24

5) Solve for x : $2x = 14$.

6) A right triangle has legs of length 5 m and 12 m. What is its area?



A. 17 m^2

C. 60 m^2

B. 30 m^2

D. 120 m^2



7) Ina saves \$500 in year 1. In year 2, her savings increases by 20%. How much does she save in year 2?

A. \$520

C. \$700

B. \$580

D. \$600

8) A map uses a scale of 1 cm = 5 km. What actual distance does 2 cm on the map represent?

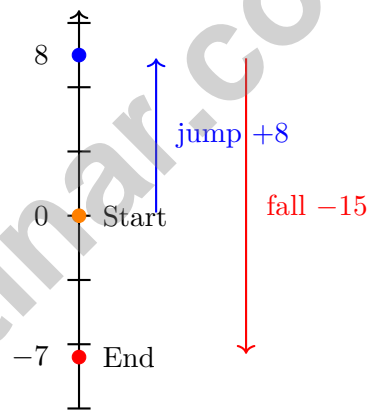
A. 10 km

C. 3 km

B. 7 km

D. 15 km

9) A video game character starts at elevation 0. She jumps up 8 meters, then falls 15 meters. What is her final elevation?



A. -23 meters

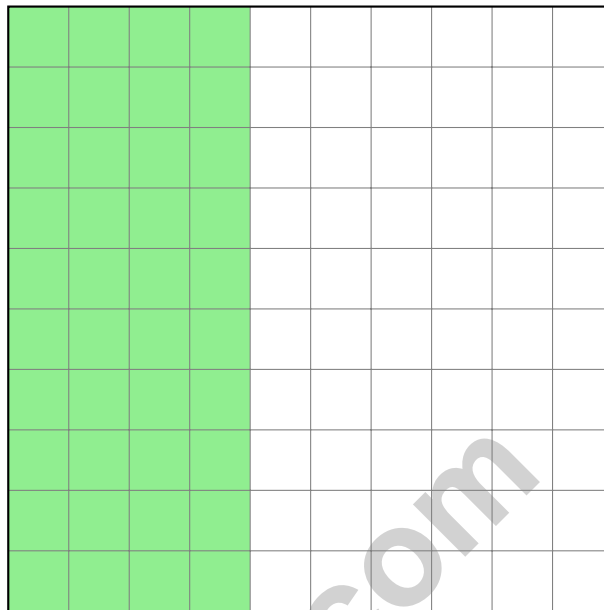
C. 7 meters

B. 23 meters

D. -7 meters



Scan me!
For more practice
& answers

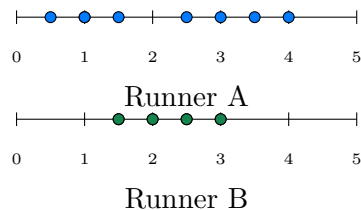


1)

How many unshaded squares are there?

- A. 40
- B. 50
- C. 60
- D. 70

2) Two runners' sprint times (seconds) over 8 races. Which runner has more consistent sprint times?



- A. Runner A
- B. Runner B
- C. Both are equally consistent
- D. Cannot determine from dot plots



Scan me!
For more practice
& answers

- 3) The mean of five numbers is 25. Four of the numbers are 20, 22, 28, 30. What is the fifth number?

- 4) A small box is 7 cm long, 3 cm wide, and 2 cm tall. What is its volume?

- A. 12 cm^3 C. 28 cm^3
 B. 21 cm^3 D. 42 cm^3

- 5) Four vertices are at (3, 1), (8, 1), (8, 3), and (3, 3). What type of quadrilateral is this?

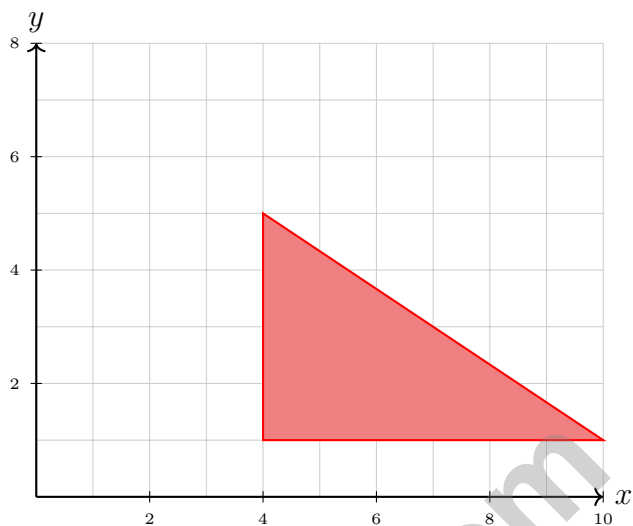
- A. Rectangle C. Triangle
 B. Trapezoid D. Pentagon

- 6) The surface area of a cube is 600 cm^2 . What is the total length of all 12 edges?

- A. 40 cm C. 100 cm
 B. 60 cm D. 120 cm

- 7) To make “How old am I?” statistical, should the question ask about one person or a group?





1)

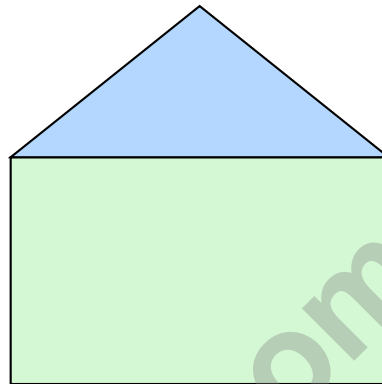
A right triangle has vertices at $(4, 1)$, $(10, 1)$, and $(4, 5)$. What is its area?

- A. 8 square units C. 12 square units
 B. 10 square units D. 14 square units



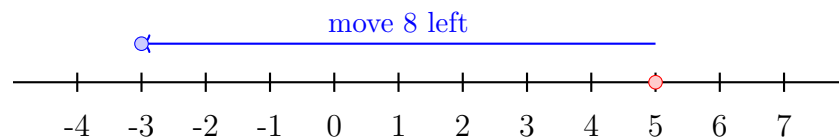
- 2) A composite shape consists of a rectangle and a triangle. The rectangle is 10 cm by 6 cm. The triangle sits on top with a base of 10 cm and height 4 cm. What is the total area of the composite shape?

Triangle: base 10 cm, height 4 cm



Rectangle: 10×6 cm

- A. 40 cm^2 C. 80 cm^2
 B. 60 cm^2 D. 100 cm^2
- 3) A rectangular prism has dimensions 5 cm by 5 cm by 2 cm. What is the volume?
- A. 12 cm^3 C. 50 cm^3
 B. 25 cm^3 D. 75 cm^3
- 4) Use the number line to find $5 + (-8)$.



- A. -13 C. 3
 B. -3 D. 13



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

Practice Test 1 Answers and Explanations

- Choice D is correct.** **(6.RP.A.3a)** The unit rate is $8 \div 2 = 4$ oz per serving. Verify: $12 \div 3 = 4$ oz per serving ✓; $16 \div 4 = 4$ oz per serving ✓.
- Choice B is correct.** **(6.EE.B.8)** An open circle at 6 means 6 is not included. The arrow points left toward smaller values, so the inequality is $x < 6$.
- Choice A is correct.** **(6.EE.B.8)** "Less than \$50" means strictly below 50: $d < 50$.
- Choice A is correct.** **(6.EE.C.9)** The equation $e = 12h$ has no constant added, so when $h = 0$ (zero hours), $e = 0$ (zero earnings). The line crosses the vertical axis at earnings = 0.
- The correct answer is 7.** **(6.EE.B.5)** Divide both sides by 2: $x = 7$.
- Choice B is correct.** **(6.G.A.1)** For a right triangle, $A = \frac{1}{2} \times 5 \times 12 = 30 \text{ m}^2$.
- Choice D is correct.** **(6.AR.EA.2)** Year 2 savings: $\$500 + 20\% \text{ of } \$500 = \$500 + \$100 = \$600$.
- Choice A is correct.** **(6.RP.A.3)** Use the scale: $2 \text{ cm} \times 5 \text{ km/cm} = 10 \text{ km}$.
- Choice D is correct.** **(6.NS.B.3)** $0 + 8 + (-15) = 8 - 15 = -7$ meters.
- Choice A is correct.** **(6.QR.EA.3)** Under par means strokes below par: $72 + (-3) = 72 - 3 = 69$ strokes.
- Choice B is correct.** **(6.EE.A.2c)** Substitute $C = 0$: $F = \frac{9}{5}(0) + 32 = 0 + 32 = 32$ degrees.
- The correct answer is 44.** **(6.G.A.2)** $V = 5.5 \times 2 \times 4 = 11 \times 4 = 44 \text{ m}^3$.
- Choice B is correct.** **(6.NS.C.8)** Reflections preserve size and shape but change position and possibly orientation.
- Choice D is correct.** **(6.QR.EA.1)** Using $A = \pi r^2 \approx 3.14 \times 4^2 = 3.14 \times 16 = 50.24 \text{ cm}^2$.
- Choice D is correct.** **(6.SP.A.1)** The population being targeted is the class itself. Although only some students may be measured (the sample), the question is about the entire class (the population).
- Choice D is correct.** **(6.SP.A.2)** Uniform distributions have roughly equal frequencies across all values/intervals. Plot B has consistent heights; Plot A is uneven.
- Choice B is correct.** **(6.SP.B.5c)** $IQR = Q3 - Q1 = 78 - 68 = 10$ degrees. The box in a box plot represents the IQR.
- Choice C is correct.** **(6.SP.B.4)** Total frequency: $1 + 4 + 6 + 3 + 1 = 15$. The median is the 8th value. Counting: $1 + 4 = 5$ (at 15 msg); continuing to 20 msg gives $5 + 6 = 11$. The 8th value is in the 20 message group.
- Choice B is correct.** **(6.NS.C.7b)** Favorable outcomes: 1 and 2 (two outcomes). Total outcomes: 6. Probability $= \frac{2}{6} = \frac{1}{3}$.
- The correct answer is The graph is a straight line through the origin, and the ratio of y to x is always constant.** **(6.EE.C.9)** Statements A and B correctly describe proportional relationships. C is wrong because b must equal 0 for proportionality. D is wrong because proportional equations have the form $y = kx$, not $y = k/x$. E is wrong because a proportional relationship must start at the origin.
- Choice C is correct.** **(6.SP.B.4)** Data values range from 45 to 63, spanning the 40s, 50s, and 60s. Three stems are needed.
- Choice C is correct.** **(6.RP.A.2)** Divide total cost by number of cookies: $6.00 \div 24 = 0.25$ dollars per cookie.
- Choice C is correct.** **(6.RP.A.3c)** From the double number line, 50 flyers are printed in 2 seconds, so $50 \div 2 = 25$ flyers per second.
- Choice C is correct.** **(6.RP.A.3d)** Reading the double number line: 3 miles corresponds to 15840 feet.
- Choice B is correct.** **(6.NS.C.6c)** Reading from the number line, point B is located at the tick mark labeled -2 .
- Choice D is correct.** **(6.NS.C.7b)** A is true ($-9 < -5$). B is true ($-2.5 > -3.5$). C is true ($-0.5 < 0.5$). D is false: $-7 < -3$, not greater.
- Choice B is correct.** **(6.NS.B.3)** Positive times negative is negative, so $8 \times (-6) = -48$. The student ignored the negative sign.



Scan me!
For more practice
& answers

Star Player Pep Talk

Hi, Star Player!

◇ 8 practice tests. Every one of them was a chance to grow. You took every chance. That's why you're a math star today! ◇

★ **Star players know:** confidence comes from practice. You can't fake it. You build it. You built yours over 8 tests. It's real now! ★

Star Player Stats

- **Practice:** OFF THE CHARTS!
- **Skills:** BROAD! You can do many problem types.
- **Toughness:** HIGH! You don't quit on hard problems.
- **Game Plan:** READY! You know your strategies.

Star tip: on test day, take it one play at a time. One problem. Then the next. You will earn your stars!

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

Jay Daie

Your Math Coach

MASTER MATH. ACE YOUR TESTS.

This Grade 6 Math Practice Tests book is designed to help students build confidence, strengthen math skills, and excel on comprehensive assessments.

With 8 full-length printed tests and 2 online tests, this resource provides realistic practice, a variety of question types, and detailed answer explanations to help students achieve their best.

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.



Understand Key Concepts

Reinforce important math ideas aligned with standards.



Test Confidence

Get familiar with test formats and improve accuracy.



Achieve Success

Build confidence and perform your best on test day.

TOPICS COVERED

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



8 FULL-LENGTH
PRACTICE TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS