

6



Maine

Through Year Assessment

GRADE 5 MATH

PRACTICE TESTS

Complete Standards-Based Practice
— for Grade 5 Math Success —



**6 FULL-LENGTH
PRACTICE TESTS**

Realistic style questions



**STANDARDS-BASED
PRACTICE**

Covers all Grade 5
Math standards



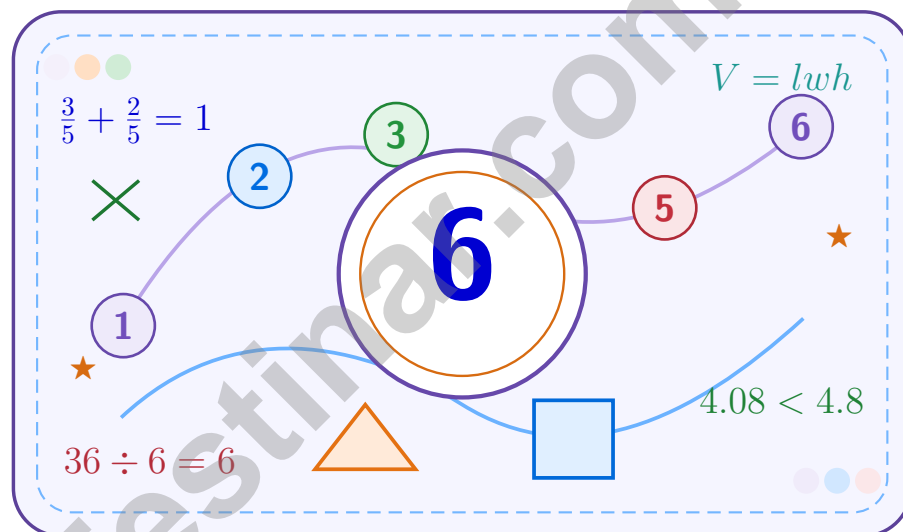
**BUILD CONFIDENCE.
IMPROVE SCORES.**

Target weak areas and
achieve success

★ **STRONG PRACTICE. BRIGHT FUTURE.** ★

6 Maine Through Year Assessment Grade 5 Math Practice Tests

A six-step confidence climb with clear review, smart strategy, and practice that gets stronger every round



Six full tests, a focused skill booster, and student-friendly support from start to finish for Grade 5 mathematicians who want to climb higher.

Jay Daie and Reza Nazari



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Welcome to the Confidence Climb

This book is here to help you practice with purpose and rise step by step

To the Grade 5 Mathematician

This practice book is a place to think, try, fix, and grow. You do not have to be perfect on the first question or the first test. What matters most is careful effort, clear work, and learning from each round of practice.

Use these six tests like stepping-stones. Take one test at a time, check your answers honestly, and notice which skills need more attention. Small improvements add up fast.

Try

Give each problem your best thinking.

Check

Study mistakes and learn what happened.

Rise

Bring that lesson into the next round.

A strong habit for every page: read carefully, estimate when it helps, show your steps, and keep going even when a question feels tricky. That is how steady math confidence is built.

How to Use This Book

A simple practice routine that turns six tests into steady growth

Step 1: Warm Up

Start with the quick review.
Spend a few minutes refreshing the ideas before you start a test.

Step 2: Take the Test

Take one full practice test.
Work in a quiet space and let accuracy matter more than speed.

Step 3: Study the Pattern

Check your work honestly.
Circle missed questions and notice patterns in the mistakes.

Step 4: Learn, Then Retry

Read the explanation and try again.
Learning happens after the test too. Fixing mistakes is one of the smartest parts of practice.

A Six-Week Climb Map

Week	Mission Focus
Week 1	Take Test 1 and review any place-value or operation slips.
Week 2	Take Test 2 and focus on showing neat, easy-to-read work.
Week 3	Take Test 3 and give extra time to fractions or decimals if needed.
Week 4	Take Test 4 and slow down on word problems and units.
Week 5	Take Test 5 and compare your score and habits with earlier rounds.
Week 6	Take Test 6 and finish with calm, careful, confident work that uses everything you practiced before.



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Test Overview

What this practice book helps students do

These practice tests are designed to help Grade 5 students get comfortable with the kind of thinking used on the Maine Through Year Assessment. The goal is bigger than only getting answers right. Students are practicing how to read closely, choose a strategy, solve carefully, and explain their work when needed.

Selected-Response Questions

Students solve the problem and choose the best answer. Estimating first and crossing out weak choices can save time and points.

Constructed-Response Questions

Students show their thinking, steps, models, or explanations. Even when unsure, writing what they know can help organize the problem.

Grade 5 Skills You Will Practice Often

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, decimals, and mixed numbers
- perimeter, area, volume, and measurement conversions
- coordinate points, patterns, graphs, and tables
- geometry and multi-step word problems

What strong work looks like: the answer is correct, the steps are clear, the labels or units are included, and the final result makes sense.



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Grade 5 Mathematics

1

Questions: 40 Duration: No time limit

Calculator Policy: Calculators are not allowed



Grade 5 Mathematics Reference Materials

PERIMETER AND AREA

Perimeter of Rectangle $P = 2l + 2w$ or $P = 2(l + w)$

Area of Rectangle $A = l \times w$

Area of Triangle $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism $V = l \times w \times h$

LENGTH

Customary

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

1 kilometer (km) = 1,000 meters (m)

CAPACITY

Customary

1 cup (c) = 8 fluid ounces (fl oz)

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

Metric

1 liter (L) = 1,000 milliliters (mL)

WEIGHT AND MASS

Customary

1 pound (lb) = 16 ounces (oz)

Metric

1 kilogram (kg) = 1,000 grams (g)

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TIME

1 minute (min) = 60 seconds (sec) 1 week = 7 days

1 hour (hr) = 60 minutes (min) 1 year = 12 months

1 day = 24 hours (hr) 1 year = 52 weeks



1) A model shows 3 wholes divided into sixths. Which equation finds the number of sixths?

A. $\frac{1}{6} \div 3 = n$

C. $3 \times \frac{1}{6} = n$

B. $3 + \frac{1}{6} = n$

D. $3 \div \frac{1}{6} = n$

2) A composite bookcase base is made from two non-overlapping rectangular prisms. Prism A is 4 feet long, 2 feet wide, and 5 feet tall. Prism B is 3 feet long, 5 feet wide, and 3 feet tall. What is the total volume?

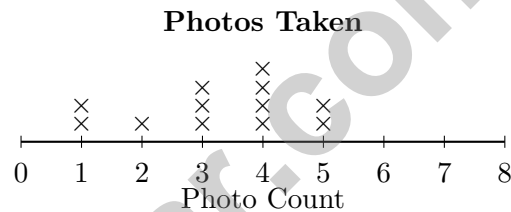
A. 40 cubic feet

C. 85 cubic feet

B. 45 cubic feet

D. 93 cubic feet

3) The line plot displays the number of photos taken at an event:



How many events had 4 photos taken?

A. 2

C. 4

B. 3

D. 5

4) A triangle has sides of 8 cm, 8 cm, and 8 cm. Each angle is less than 90° . How should the triangle be classified by its sides and by its angles?

A. Equilateral acute

C. Scalene acute

B. Isosceles right

D. Equilateral obtuse



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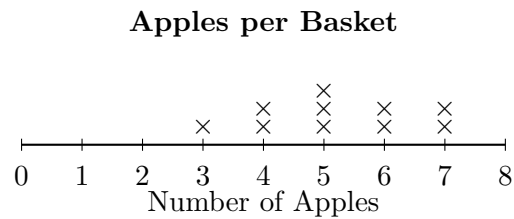
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- 1) The line plot displays the number of apples in 10 baskets:



How many baskets contain 6 or more apples?

- A. 2 C. 4
 B. 3 D. 5
- 2) Which number is least: 0.6, 0.55, or 0.605?

Record your answer in the space provided.

- 3) What is 0.36×10 as a decimal?

- A. 0.36 C. 0.036
 B. 36 D. 3.6
- 4) Compare without calculating: $4 \times (25 + 6)$ $(4 \times 25) + 6$

- A. $>$ C. $=$
 B. $<$ D. Cannot tell



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1) Which is “the quotient of 36 and 4, increased by 9”?

A. $36 + 4 \div 9$

C. $9 + 36 \div (4 + 1)$

B. $36 \div (4 + 9)$

D. $(36 \div 4) + 9$

2) A strip shows one eighth split into 3 equal parts. Which equation matches the model?

A. $3 \div \frac{1}{8} = ?$

C. $\frac{1}{8} \div 3 = ?$

B. $\frac{1}{8} \times 3 = ?$

D. $3 + \frac{1}{8} = ?$

3) Compare: 3.004 and 3.04.

$$3.004 \square 3.04$$

A. $<$

C. $=$

B. $>$

D. Cannot compare

4) Find: $\frac{3}{4} \times 8$.

Record your answer in the space provided.



Grade 5 Mathematics Reference Materials

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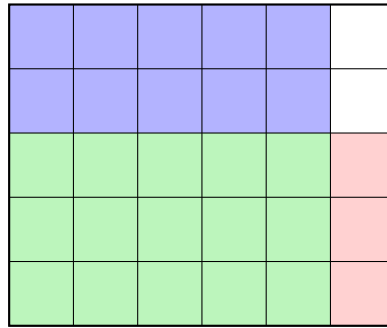
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1) A rectangular garden is $\frac{5}{6}$ mile long and $\frac{3}{5}$ mile wide. What is the area?



- A. $\frac{8}{11}$ square miles
- B. $\frac{5}{6}$ square miles
- C. $\frac{15}{18}$ square miles
- D. $\frac{15}{30}$ square mile or $\frac{1}{2}$ square mile

2)

Number	$\div 10$	$\div 100$	$\div 1,000$
356	35.6	3.56	?

What is $356 \div 1,000$?

- A. 0.356
 - B. 3.56
 - C. 35,600
 - D. 0.035
- 3) A storage locker has volume 150 cubic meters. Its base is 6 meters by 5 meters. What is its height?
- A. 4 meters
 - B. 6 meters
 - C. 30 meters
 - D. 5 meters
- 4) A recipe calls for $1\frac{1}{2}$ cups of flour. If you triple the recipe, how many cups do you need?
- A. 5
 - B. 6
 - C. 4
 - D. $4\frac{1}{2}$



Practice Test Answer Keys

How to use this section:

1. check your answer
2. circle missed questions
3. rework them before reading the explanation

Good correction habits build strong scores.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice D is correct.** (5.NF.B.7c) The model counts sixths inside 3 wholes. So the matching equation is $3 \div \frac{1}{6} = n$.
- Choice C is correct.** (5.MD.C.5c) Find each part first: Prism A is $4 \times 2 \times 5 = 40$ cubic feet, and Prism B is $3 \times 5 \times 3 = 45$ cubic feet. Because the parts do not overlap, add them: $40 + 45 = 85$ cubic feet.
- Choice C is correct.** (5.MD.B.2) Count the X marks above 4 photos. There are 4 X marks, so 4 events had 4 photos taken.
- Choice A is correct.** (5.G.B.4) All three sides measure 8 cm, so all sides are equal. Since each angle is less than 90° , the triangle is acute.
- Choice C is correct.** (5.G.B.3) A figure with four sides is a quadrilateral. The phrase “exactly one pair of parallel sides” describes the needed attribute without relying on a state-specific trapezoid definition.
- Choice D is correct.** (5.G.B.4) Every rectangle has two pairs of parallel sides, so every rectangle is a parallelogram.
- Choice D is correct.** (5.MD.A.1) Since 12 inches = 1 foot, multiply 7 by 12: $7 \times 12 = 84$ inches.
- Choice D is correct.** (5.NF.B.3) $2 \div \frac{1}{5} = 2 \times 5 = 10$.
- Choice C is correct.** (5.NBT.A.2) $65 \times 10^2 = 65 \times 100 = 6500$ and $650 \times 10 = 6500$. Both equal 6500.
- Choice A is correct.** (5.OA.A.2) The phrase “the difference of 20 and 5” means group $20 - 5$ first. “Double” means multiply that whole difference by 2.
- Choice B is correct.** (5.NF.A.1) Convert to tenths: $2\frac{5}{10} + 3\frac{3}{10} = 5\frac{8}{10}$.
- Choice A is correct.** (5.NF.B.4b) Model 1: $\frac{3}{5} \times \frac{1}{2} = \frac{3}{10}$. Model 2: $\frac{2}{5} \times \frac{2}{3} = \frac{4}{15}$. Since $\frac{3}{10} = \frac{9}{30}$ and $\frac{4}{15} = \frac{8}{30}$, Model 1 is greater.
- Choice C is correct.** (5.G.A.2) Third position: Rule A gives $3 \times 3 = 9$; Rule B gives $3 \times 2 = 6$. Ordered pair is (9, 6).
- The correct answer is 2.** (5.OA.B.3) Compare: $4 = 2 \times 2$, $8 = 2 \times 4$, etc. Each B term is 2 times its A term.
- Choice D is correct.** (5.NBT.B.5) Multiply: $112 \times 7 = (100 \times 7) + (10 \times 7) + (2 \times 7) = 700 + 70 + 14 = 784$.
- The correct answer is 6.78.** (5.NBT.B.7) Subtracting with borrowing: $15.05 - 8.27 = 6.78$.
- Choice B is correct.** (5.MD.C.5) The base area is $12 \times 10 = 120$ square centimeters. Since $1440 \div 120 = 12$, the tank is 12 cm deep.
- Choice A is correct.** (5.NBT.B.6) Use compatible numbers: $2,345 \approx 2,400$ and $59 \approx 60$. So $2,400 \div 60 = 40$.
- Choice C is correct.** (5.NF.B.7c) $5 \div \frac{1}{8} = 5 \times 8 = 40$ pieces.
- Choices A, B are correct.** (5.NBT.A.2) A and B both equal 1,000, so each has exactly 3 zeros at the end. C equals 100, which has 2 zeros at the end, and D equals 10,000, which has 4 zeros at the end.
- The correct answer is 24.** (5.MD.C.3b) Think of the prism as layers of cubes. Each layer has $4 \times 3 = 12$ cubes, and 2 layers make $12 \times 2 = 24$ unit cubes.
- Choice C is correct.** (5.NBT.A.4) The tenths digit is 6 and the hundredths digit is 5. Since $5 \geq 5$, round the tenths digit up: $6 \rightarrow 7$, giving 98.7°F .
- Choice A is correct.** (5.NBT.A.3a) 38 out of 100 squares shaded represents $\frac{38}{100} = 0.38$.
- Choice C is correct.** (5.NF.B.6) $\frac{3}{8}$ of 16 is $\frac{3}{8} \times 16 = 6$. Malik eats 6 brownie pieces.
- Choice A is correct.** (5.NF.B.4) The shaded strip is $\frac{1}{5}$ unit wide for each unit of height. With 2 units of height, the area is $2 \times \frac{1}{5} = \frac{2}{5}$ square unit.
- Choice B is correct.** (5.NBT.B.7) Add by place value: hundredths $8 + 5 = 13$ (write 3, carry 1); tenths $2 + 3 + 1 = 6$; ones $4 + 2 = 6$. The correct sum is 6.63, which matches Chen’s work.
- Choice B is correct.** (5.OA.B.3) Multiples of 11: 20th multiple is $11 \times 20 = 220$.
- Choice D is correct.** (5.G.A.2) Double each input: input 1 gives 2, input 2 gives 4, and input 3 gives 6.
- The correct answer is $\frac{12}{16}$.** (5.NF.A.2) Multiply numerator and denominator by 4: $\frac{3 \times 4}{4 \times 4} = \frac{12}{16}$.
- Choice A is correct.** (5.NBT.A.2) $45000 = 4 \times 10^4 + 5 \times 10^3$ since $40000 = 4 \times 10000$ and $5000 = 5 \times 1000$.
- Choice B is correct.** (5.NF.B.3) Dividing by a whole number means multiplying by its reciprocal: $\frac{1}{6} \div 4 = \frac{1}{6} \times \frac{1}{4} = \frac{1}{24}$.



Director's Notes: Final Scene

Greetings, Star Performer!

★ Spectacular performance! You've rehearsed six complete mathematical productions, perfecting your delivery and timing like a professional actor! Each test was a dress rehearsal, allowing you to fine-tune your performance, discover your strengths, and polish your techniques. Opening night (test day) approaches, and you're absolutely ready for the spotlight! ★

◇ **Here's what acclaimed performers understand:** confidence comes from thorough preparation. Professional actors rehearse extensively so that when the curtain rises, they can perform naturally and confidently. You've completed your rehearsals—six of them! Your mathematical performance skills are polished and ready. Trust your preparation and deliver an outstanding show! ◇

Performance Review Notes

1. **Character Development:** You understand your mathematical role completely!
2. **Stage Presence:** You approach problems with confidence and poise!
3. **Line Delivery:** You express solutions clearly and accurately!
4. **Show Ready:** You're prepared for a standing ovation!

Remember this performance wisdom: great actors don't memorize words; they understand characters. You haven't just memorized procedures; you understand mathematical concepts. That deep understanding means you can adapt to any question variation. When the test begins, step into your role confidently and perform brilliantly!

Want to share your mathematical performance insights or celebrate a particularly elegant solution? Send your reviews to reza@testinar.com. I appreciate mathematical artistry!

Reza Nazari & Jay Daie

Your Math Coaches for Confident Answers

6 FULL-LENGTH TESTS. ENDLESS POTENTIAL.

PRACTICE TODAY. SUCCEED TOMORROW.

Give your child the tools they need to build strong math skills and test-taking confidence! This book includes **6 full-length practice tests** along with standards-based practice, mixed review, word problems, and a complete answer key.

★★★
PRACTICE
WITH PURPOSE.
ACHIEVE WITH
CONFIDENCE.

WHAT'S INSIDE:



6 FULL-LENGTH PRACTICE TESTS

Realistic tests designed to reflect the actual test format and help build confidence.



STANDARDS-BASED PRACTICE

Covers all essential Grade 5 math standards with clear explanations and examples.



MIXED REVIEW

Reinforces key concepts with a variety of question types and review exercises.



WORD PROBLEMS

Build critical thinking and problem-solving skills with real-world scenarios.



COMPLETE ANSWER KEY

Step-by-step explanations for every question to support learning and growth.



IMPROVE. PRACTICE. ACHIEVE.

Consistent practice leads to stronger skills, higher scores, and greater success.



WHY PRACTICE MAKES A DIFFERENCE



BUILD CONFIDENCE

Feel prepared and ready for any challenge.



IMPROVE ACCURACY

Strengthen skills and reduce careless mistakes.



THINK STRATEGICALLY

Develop problem-solving skills and deepen understanding.



MANAGE TIME

Practice under timed conditions to build stamina.



STAY MOTIVATED

Track progress and celebrate every win.



ACHIEVE SUCCESS

Reach goals and unlock your full potential!



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Smart Practice. Stronger Results.