

5

FULL-LENGTH

Maine

Through Year Assessment

GRADE 5 MATH

★ PRACTICE TESTS ★



**5 FULL-LENGTH
PRACTICE TESTS**



**COMPLETE
STANDARDS
REVIEW**



**SKILL PRACTICE,
WORD PROBLEMS,
AND MORE!**

$$\frac{3}{4} + \frac{2}{4} = \frac{5}{4}$$



$$12 \times 3 = 36$$



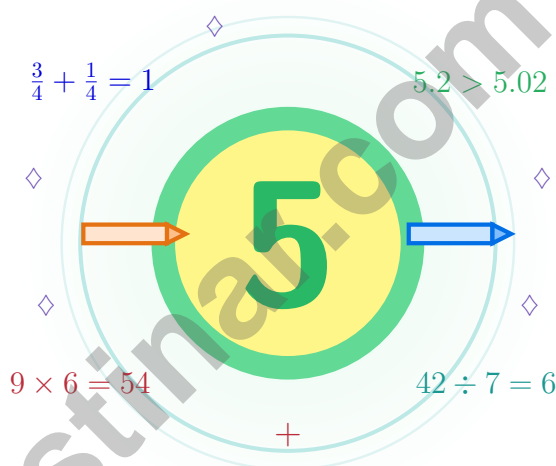
$$\frac{7}{10} = 0.7$$



BUILT FOR SUCCESS. DESIGNED TO HELP EVERY STUDENT.

5 Maine Through Year Assessment Grade 5 Math Practice Tests

Five full tests, five lessons, one stronger mathematician



Five full tests, a friendly quick review, smart strategy pages, and student-tested support that turn Grade 5 practice in The Pine Tree State into a steady quest of real growth.

Jay Daie and Reza Nazari



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Maine, The Five-Test Journey Starts Here

Five full tests, five lessons, one stronger mathematician

To Every Math Brain in Maine

This book is your practice zone, not a place to be perfect. Each of the five tests gives you a chance to notice clues, choose a strategy, check your thinking, and come back stronger for the next round. Math is a lot like the rocky Maine coast – it looks tough at first, but careful steps and patient eyes reveal a steady path.

Some questions will feel easy right away. Some will make you slow down, draw, estimate, or retry. That is excellent news. It means your math brain is doing real work.

Notice

Read closely and spot what the problem is really asking.

Try

Pick a plan and work through it one step at a time.

Level Up

Use every correction like a clue for what to practice next.

A strong quest habit for Maine: slow down, write neatly, estimate before you solve, and keep going even when a problem looks tricky at first. That is exactly how confident math students are built.

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Use This Book Like a Quest Coach

A simple routine that turns five tests into real growth

Step 1: Power Up

Warm up with the quick review.
Wake up important ideas before you begin so your brain is ready to use them.

Step 2: Take the Checkpoint

Take one full practice test.
Find a quiet space, work carefully, and let accuracy matter more than speed.

Step 3: Decode Mistakes

Check your answers honestly.
Circle missed questions and look for patterns. Which skill or habit needs another try?

Step 4: Bring the Lesson Forward

Study, fix, and retry.
Read the explanation, repair the work, and carry that lesson into the next test.

A Five-Week Maine Quest Map

Week	Mission Focus
Week 1	Take Test 1 like a careful low-tide morning.
Week 2	Take Test 2 and notice one habit that grew steadier.
Week 3	Take Test 3 and lift fractions, decimals, and conversions.
Week 4	Take Test 4 and slow down on multi-step problems.
Week 5	Take Test 5 with calm, careful focus.



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Grade 5 Mathematics Reference Materials

PERIMETER AND AREA

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

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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)

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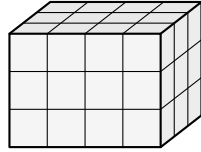
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- 1) A rectangular prism has 3 layers. Each layer has 12 unit cubes arranged as 4 wide by 3 long. How many unit cubes total?



- A. 36 unit cubes C. 24 unit cubes
 B. 12 unit cubes D. 48 unit cubes
- 2) Which decimal is equivalent to 0.3?
- A. 0.03 C. 0.033
 B. 0.30 D. 3.0
- 3) Express 72000 using a power of 10: $72000 = 72 \times 10^?$
- A. 2 C. 4
 B. 3 D. 5
- 4) Find: $\frac{7}{8} \times 4$.

Record your answer in the space provided.

- 5) Which expression represents four groups of the quantity $(6 + 2)$?
- A. $4 \times (6 + 2)$ C. $4 + (6 \times 2)$
 B. $(4 \times 6) + 2$ D. $(4 + 6) \times 2$



6) Find: 0.4×0.6 .

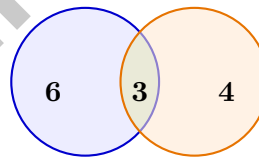
Record your answer in the space provided.

7) Error analysis: A student computed 6.8×10^2 and got 6.80. What mistake did the student make?

- A. Did not move the decimal at all
- B. Moved decimal 1 place instead of 2
- C. Moved decimal left instead of right
- D. Added a zero instead of moving the decimal

8) A Venn diagram has one circle for rectangles and one circle for rhombuses. There are 6 rectangles only, 4 rhombuses only, and 3 squares in the intersection. How many figures are rectangles?

Rectangles Rhombuses



- A. 3
- B. 13
- C. 10
- D. 9



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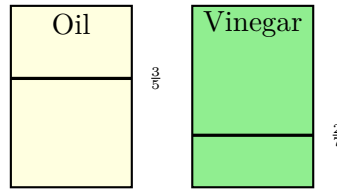
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1) A recipe needs $\frac{3}{5}$ cup of oil and $\frac{2}{7}$ cup of vinegar. Which ingredient is more?

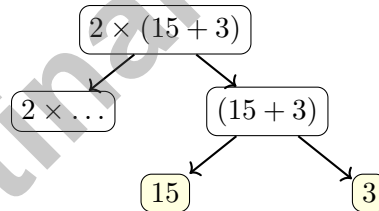


- A. Oil is more
- B. Vinegar is more
- C. They are equal
- D. Cannot determine

2) Evaluate: $25 - (8 + 2) \div 5$

- A. 3
- B. 17
- C. 21
- D. 23

3) A tree diagram breaks down the expression $2 \times (15 + 3)$. Which labels the product of 15 and 3?



- A. $2 \times \dots$
- B. $(15 + 3)$
- C. 15
- D. This expression has no product of 15 and 3

4) Which symbol makes the statement true? $7 \times (8 + 2) \square 7 \times 10$

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



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- 1) Write $4 + \frac{7}{10} + \frac{1}{100}$ as a decimal.
- A. 4.17 C. 0.471
 B. 47.1 D. 4.71
- 2) Which statement about $(30 + 20) \div 5$ and $(30 \div 5) + (20 \div 5)$ is correct?
- A. First expression is larger
 B. Second expression is larger
 C. They are equal
 D. Cannot be compared
- 3) Add: $2\frac{7}{10} + 3\frac{6}{10}$
- A. $5\frac{12}{10}$ C. $6\frac{3}{10}$
 B. $5\frac{3}{10}$ D. 6
- 4) A box has a volume of 240 in^3 , length 12 in, and width 4 in. What is its height?
- A. 3 in C. 6 in
 B. 5 in D. 7 in
- 5) A printer has 10 packs of paper. Each booklet uses $\frac{1}{8}$ of a pack. How many booklets can be made?
- A. 60 booklets C. 100 booklets
 B. 80 booklets D. 120 booklets
- 6) A recipe calls for 6.75 cups of flour. You have already mixed 2.43 cups. How many more cups do you need?
- A. 4.32 cups C. 4.12 cups
 B. 4.42 cups D. 3.92 cups



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 A is correct.** (5.MD.C.4) Each layer has 12 cubes. Three layers of the same size give $12 \times 3 = 36$ unit cubes total.
- Choice B is correct.** (5.NBT.A.3b) Trailing zeros do not change value: $0.3 = 0.30 = 0.300$ (all equal 3 tenths).
- Choice B is correct.** (5.NBT.A.2) A power of 10 tells how many factors of 10 to use. $72 \times 10^3 = 72000$. This confirms the answer.
- The correct answer is $3\frac{1}{2}$.** (5.NF.B.4) Four copies of $\frac{7}{8}$ make $\frac{28}{8}$. Divide 28 by 8 to get $3\frac{4}{8}$, which simplifies to $3\frac{1}{2}$.
- Choice A is correct.** (5.OA.A.1) The words “four groups of the quantity $(6 + 2)$ ” mean the grouped quantity is multiplied by 4. That is represented by $4 \times (6 + 2)$.
- The correct answer is 0.24.** (5.NBT.B.7) $4 \times 6 = 24$. Two decimal places total in factors, so 0.24.
- Choice A is correct.** (5.NBT.A.2) $6.8 \times 100 = 680$. The student should move the decimal 2 places right, not leave it unchanged at 6.80.
- Choice D is correct.** (5.G.B.4) Rectangles include the rectangle-only region and the intersection: $6 + 3 = 9$.
- Choice B is correct.** (5.MD.C.5) The base area is $7 \times 6 = 42$ square inches. Since $210 \div 42 = 5$, the height is 5 in.
- Choice C is correct.** (5.NBT.A.2) Multiplying by 1,000 moves the decimal three places right: $0.65 \rightarrow 6.5 \rightarrow 65 \rightarrow 650$.
- Choice C is correct.** (5.OA.B.3) For 25 likes, the matching number of views should be $25 \times 5 = 125$, not 150. The other listed pairs follow the rule.
- Choice C is correct.** (5.MD.C.5b) Volume = $20 \times 15 \times 6 = 1800$ cubic feet.
- Choice D is correct.** (5.NBT.A.2) Think of 50 as 5×10 . First find $12 \times 5 = 60$, then multiply by 10 to get 600.
- Choice C is correct.** (5.NBT.B.6) C is incorrect because $22 \times 38 + 10 = 846$, not 847. The correct remainder is 11. A, B, and D are correct.
- Choice A is correct.** (5.MD.C.5c) Find each part first: Prism A is $6 \times 2 \times 2 = 24$ cubic centimeters, and Prism B is $3 \times 3 \times 1 = 9$ cubic centimeters. Because the parts do not overlap, add them: $24 + 9 = 33$ cubic centimeters.
- Choice A is correct.** (5.NF.B.7c) One whole foot has 3 one-third-foot pieces, so $1 \div \frac{1}{3} = 3$ pieces.
- Choice B is correct.** (5.NBT.A.2) Compute each pair. A: $3,000 \div 10 = 300$ and $300 \div 10 = 30$ ($300 \neq 30$). B: $2,100 \div 100 = 21$ and $210 \div 10 = 21$ — both equal 21 ✓. C: $5,600 \div 1,000 = 5.6$ and $56 \div 100 = 0.56$ ($5.6 \neq 0.56$). D: $1,500 \div 100 = 15$ and $1,500 \div 1,000 = 1.5$ ($15 \neq 1.5$).
- Choice B is correct.** (5.NF.B.5b) Grid: $5 \times 4 = 20$ cells. Shaded (2 of 4 rows, 3 of 5 columns): $2 \times 3 = 6$ cells. Answer: $\frac{6}{20} = \frac{3}{10}$.
- Choice A is correct.** (5.OA.A.2) First translate “the product of 3 and 5” as 3×5 . The difference of 25 and that product is $25 - 3 \times 5$.
- Choices A, B are correct.** (5.G.B.4) Every triangle has exactly 3 sides and 3 vertices. Some triangles have a right angle, but many triangles do not.
- Choice D is correct.** (5.G.B.3) A regular polygon has all sides of equal length and all angles of equal measure. The hexagon (D) is regular.
- Choice B is correct.** (5.MD.B.2) There are 3 X marks above $\frac{3}{4}$ yard. $\frac{3}{4} + \frac{3}{4} + \frac{3}{4} = \frac{9}{4} = 2\frac{1}{4}$ yards.
- Choice B is correct.** (5.NF.B.7c) Start with one unit fraction, $\frac{1}{8}$, and share it into 5 equal parts. Each part is $\frac{1}{8} \div 5 = \frac{1}{40}$ of the whole.
- Choice A is correct.** (5.MD.A.1) 1 meter = 1,000 millimeters. Divide: $8000 \div 1000 = 8$ m.
- Choice A is correct.** (5.NBT.A.3a) “Seven and twenty-four hundredths” means 7 whole units and 24 hundredths: 7.24.
- Choice D is correct.** (5.MD.A.1) Add the seconds: $35 + 12 + 48 = 95$ seconds, which is 1 minute 35 seconds. Add the minutes: $2 + 3 + 2 = 7$ minutes. The total is 8 minutes 35 seconds.
- Choice B is correct.** (5.NF.A.2) To compare the fractions, change them to equivalent fractions with the same denominator. The least common denominator of 8 and 5 is 40. $\frac{3}{8} = \frac{15}{40}$ and $\frac{2}{5} = \frac{16}{40}$. Since $16 > 15$, $\frac{2}{5} > \frac{3}{8}$, so Rosa has more pizza.



Hey there, Master Gamer!

★ Level mastery achieved! You've conquered five complete game worlds, defeating mathematical boss battles and collecting skill power-ups like a professional gamer! Each test level presented unique challenges and hidden obstacles, but you've learned the patterns, mastered the controls, and leveled up your abilities significantly. Your character stats are at maximum capacity! ★

◇ **Here's what elite gamers understand:** mastering difficult games requires repeated playthroughs, learning from defeats, and developing strategic thinking. They study level designs, practice timing, and memorize successful strategies. You've done exactly that through these five test levels! You've learned the mathematical game mechanics, and now you're ready for the championship tournament! ◇

Character Stats Maxed Out

Problem-Solving Power: Leveled up to Expert tier through consistent training!

Strategic Thinking: Unlocked advanced tactical abilities through practice!

Endurance Meter: Can maintain focus through extended gaming sessions!

Boss Battle Ready: Prepared to defeat the final test day challenge!

Gaming wisdom: professional players stay calm during competitive matches because they've practiced under pressure. Test day is your championship match. When you encounter a challenging problem-boss, remember your five training sessions. You've defeated tougher enemies before. Use your best strategies, stay focused, and claim victory!

Want to share your gaming strategies or discuss a particularly clever solution combo? Send your achievements to reza@testinar.com. Let's celebrate your wins!

Reza Nazari & Jay Daie

Your Math Coaches for Showing Your Work

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Build confidence and master math with **5 full-length** practice tests designed to reflect the real test experience. This book provides the practice, review, and support students need to succeed in Grade 5 and beyond!

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with consistent
practice



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and problem-
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