

10 COMPLETE

New Hampshire

NH SAS

GRADE 5

MATH

PRACTICE TESTS

Standards-Based Review with
Mixed Practice and Detailed Answer Key



10 Complete Practice Tests

Build confidence and test readiness



Standards-Based Review

Covers key Grade 5 math standards



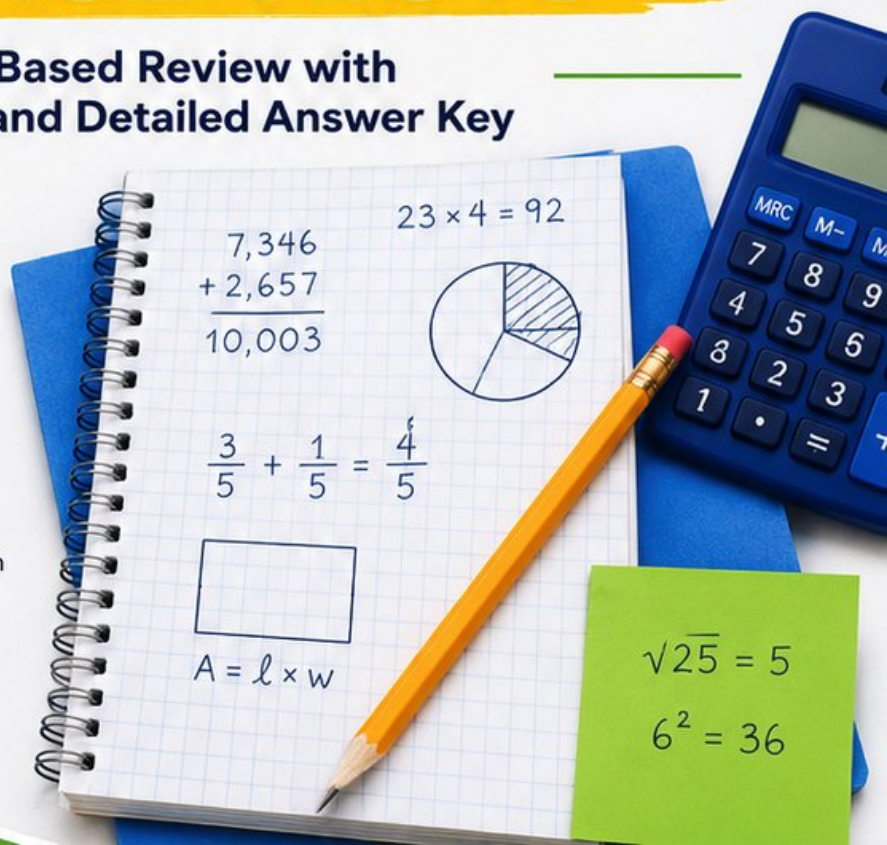
Mixed Practice

Variety of question types to strengthen skills



Detailed Answer Key

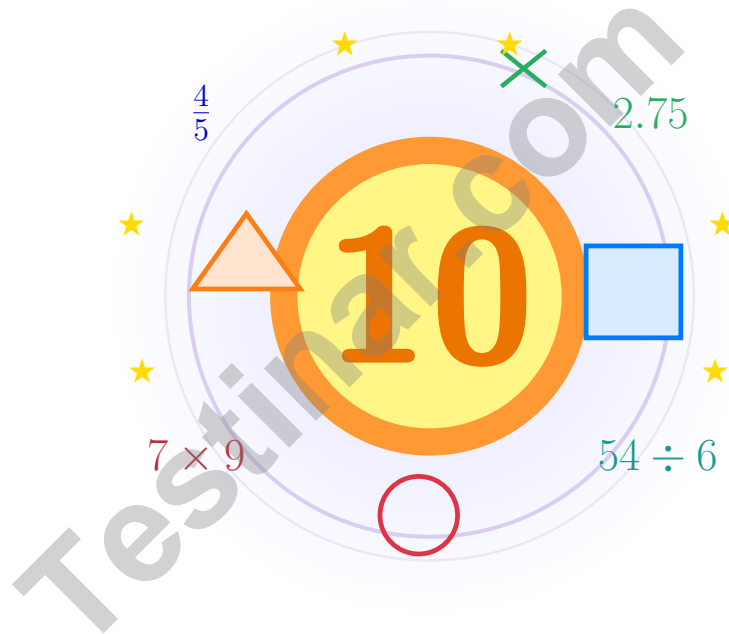
Step-by-step explanations for every question



PREPARE.
PRACTICE.
SUCCEED!

10 New Hampshire NH SAS Grade 5 Math Practice Tests

Bright review, thoughtful practice, and steady confidence for Grade 5



Ten full tests, a focused quick review, and student-friendly support that keeps practice clear and encouraging.

Jay Daie and Reza Nazari



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Welcome!

This book is a place to practice bravely and think clearly

Dear Grade 5 Mathematician

This book gives you ten chances to read carefully, solve thoughtfully, and build steady math confidence. Some problems will feel friendly right away. Some will take more patience. Both kinds help you grow.

The goal is not to feel perfect before you begin. The goal is to practice honest effort, learn from corrections, and notice how much stronger your thinking becomes over time.

Read

Slow down and understand the task.

Solve

Show clear steps and good choices.

Learn

Use mistakes as clues for what comes next.

A strong habit from the start: keep your work neat, estimate when it helps, write units carefully, and do not let one hard problem decide your mood for the whole page.



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How to Use This Book

A simple routine that turns practice into real progress

Step 1

Warm up with the quick review.

Spend a few minutes refreshing the ideas before the test begins.

Step 2

Take one full practice test.

Work in a calm spot and aim for careful thinking before speed.

Step 3

Check your work honestly.

Circle missed questions and notice which skills need another look.

Step 4

Fix and reflect.

Read the explanation, repair the work, and bring that lesson into the next test.



A Good 10-Week Rhythm

Week 1	Take Test 1 and notice your starting strengths.
Week 2	Take Test 2 and slow down on word problems.
Week 3	Take Test 3 and sharpen multiplication and division checks.
Week 4	Take Test 4 and focus on fractions and decimals.
Week 5	Take Test 5 and watch your labels and units closely.
Week 6	Take Test 6 and practice calmer pacing.
Week 7	Take Test 7 and compare your habits with the earlier weeks.
Week 8	Take Test 8 and focus on tidy, checkable work.
Week 9	Take Test 9 and compare your progress with the way you worked in the earlier weeks.
Week 10	Take Test 10 and finish with steady, confident effort while using every strong habit you built.



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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	Metric
1 foot (ft) = 12 inches (in.)	1 meter (m) = 100 centimeters (cm)
1 yard (yd) = 3 feet (ft)	1 centimeter (cm) = 10 millimeters (mm)
1 yard (yd) = 36 inches (in.)	1 kilometer (km) = 1,000 meters (m)

CAPACITY

Customary	Metric
1 cup (c) = 8 fluid ounces (fl oz)	1 liter (L) = 1,000 milliliters (mL)
1 pint (pt) = 2 cups (c)	
1 quart (qt) = 2 pints (pt)	
1 gallon (gal) = 4 quarts (qt)	

WEIGHT AND MASS

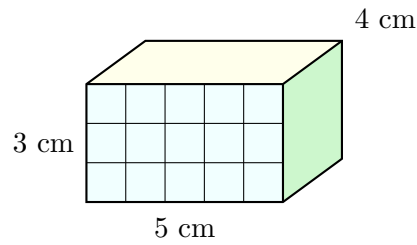
Customary	Metric
1 pound (lb) = 16 ounces (oz)	1 kilogram (kg) = 1,000 grams (g)
	1 gram (g) = 1,000 milligrams (mg)

TIME

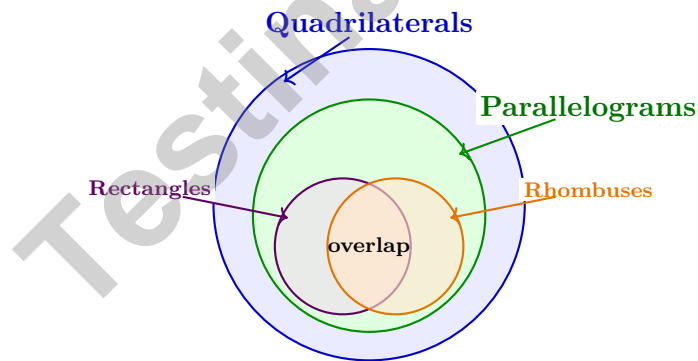
1 minute (min) = 60 seconds (sec)	1 week = 7 days
1 hour (hr) = 60 minutes (min)	1 year = 12 months
1 day = 24 hours (hr)	1 year = 52 weeks



1) A small gift box measures 5 cm by 4 cm by 3 cm. What is its volume?



- A. 12 cubic cm
 - B. 20 cubic cm
 - C. 60 cubic cm
 - D. 75 cubic cm
- 2) A farmer with 78 chickens sells them at 10 dollars each. How much money?
- A. 88
 - B. 780
 - C. 7800
 - D. 780000
- 3) A Venn diagram has a large circle labeled Quadrilaterals. Inside it is a circle labeled Parallelograms. Inside Parallelograms, the Rectangle and Rhombus circles overlap. Where should a square be placed?



- A. In Quadrilaterals, outside Parallelograms
- B. In Rectangle only, outside Rhombus
- C. In Rhombus only, outside Rectangle
- D. In the overlap of Rectangle and Rhombus



4) What is $\frac{1}{4} \div 2$?

- A. $\frac{3}{8}$
 B. $\frac{1}{2}$

- C. $\frac{1}{8}$
 D. $\frac{4}{2}$

5) Find: $7.2 \div 0.8$.

Record your answer in the space provided.

6) What is the place-value word form of 4.05?

- A. Four point zero five
 B. Four tenths and five

- C. Four and five hundredths
 D. Four and five tenths

7) What is $\frac{2}{3} \times \frac{1}{4}$ in simplest form?

- A. $\frac{2}{7}$
 B. $\frac{3}{12}$

- C. $\frac{1}{6}$
 D. $\frac{3}{7}$

8) A baker has 4 pounds of dough. Each pan of cookies uses $\frac{1}{4}$ pound of dough. How many pans can he make?

- A. 16 pans
 B. 12 pans

- C. 8 pans
 D. 20 pans

9) A cargo container has internal volume based on dimensions 24 feet long, 8 feet wide, and 8 feet tall. If each identical shipment uses 64 cubic feet of space and no space is wasted, how many shipments can the container hold?

- A. 12 items
 B. 18 items

- C. 24 items
 D. 30 items



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)

1 gram (g) = 1,000 milligrams (mg)

TIME

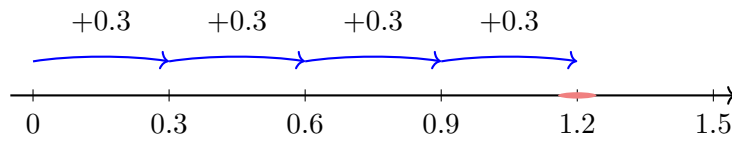
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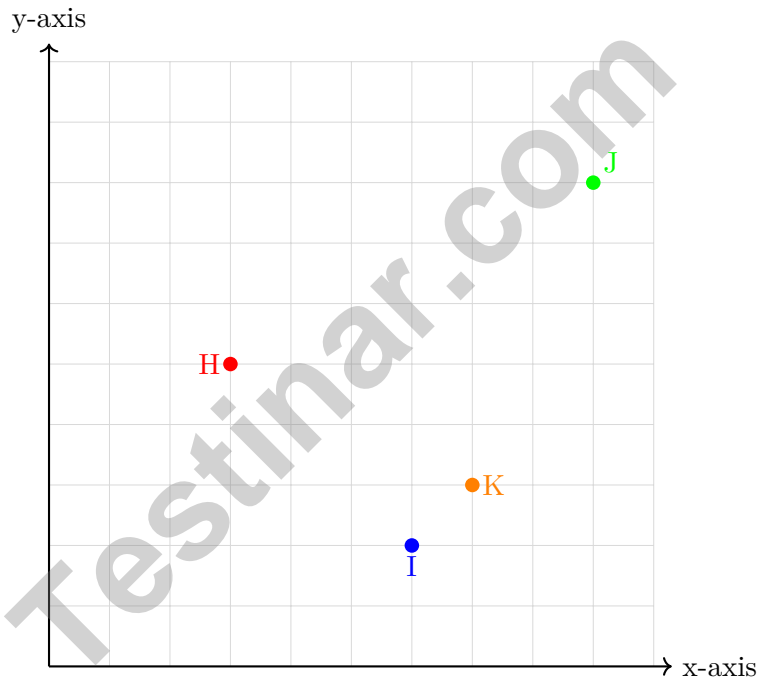


1) What is $1.2 \div 0.3$?



- | | |
|-------------------------------|-------------------------------|
| <input type="checkbox"/> A. 3 | <input type="checkbox"/> C. 5 |
| <input type="checkbox"/> B. 6 | <input type="checkbox"/> D. 4 |

2) On a coordinate grid, four points are plotted. Which point is farthest right?



- | | |
|-------------------------------|-------------------------------|
| <input type="checkbox"/> A. H | <input type="checkbox"/> C. J |
| <input type="checkbox"/> B. I | <input type="checkbox"/> D. K |



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End of Practice Test

Nice work. Pause, breathe, and check your answers with care.



Grade 5 Mathematics

10

Questions: 40 Duration: No time limit

Calculator Policy: Calculators are not allowed



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 C is correct.** (5.MD.C.3b) $V = 5 \times 4 \times 3 = 60$ cubic centimeters.
- Choice B is correct.** (5.NBT.A.2) $78 \times 10 = 780$ dollars. Append one zero to 78.
- Choice D is correct.** (5.G.B.4) A square has four right angles, so it is a rectangle. It also has four equal sides, so it is a rhombus. Therefore, it belongs in the overlap of Rectangle and Rhombus.
- Choice C is correct.** (5.NF.B.7c) Dividing by 2 splits the fraction in half: $\frac{1}{4} \div 2 = \frac{1}{8}$.
- The correct answer is 9.** (5.NBT.B.7) Use place-value reasoning to keep the decimal in the correct place. Multiply both by 10: $72 \div 8 = 9$. This confirms the answer.
- Choice C is correct.** (5.NBT.A.3a) 4.05 has a 0 in the tenths place and a 5 in the hundredths place, so it reads as “four and five hundredths”.
- Choice C is correct.** (5.NF.B.5b) $\frac{2}{3} \times \frac{1}{4} = \frac{2}{12} = \frac{1}{6}$.
- Choice A is correct.** (5.NF.B.7c) $4 \div \frac{1}{4} = 4 \times 4 = 16$. Nice work if you pictured four quarter-pound parts in each pound.
- Choice C is correct.** (5.MD.C.5a) Container volume: $24 \times 8 \times 8 = 1536$ cubic feet. Items that fit: $1536 \div 64 = 24$ items.
- The correct answer is $\frac{3}{8}$.** (5.NF.A.2) $\frac{1}{4} = \frac{2}{8}$. Difference: $\frac{5}{8} - \frac{2}{8} = \frac{3}{8}$.
- Choice C is correct.** (5.OA.B.3) Term 1: 1. Term 2: $1 \times 10 - 2 = 8$. Term 3: $8 \times 10 - 2 = 78$.
- Choice B is correct.** (5.NF.B.4b) The correct answer is $\frac{2}{3} \times \frac{1}{4} = \frac{2}{12}$, not $\frac{2}{7}$. The student added $3 + 4 = 7$ instead of multiplying $3 \times 4 = 12$.
- Choice D is correct.** (5.MD.C.5) Total cost: $42.50 + 38.75 = 81.25$ dollars. Change: $100 - 81.25 = 18.75$ dollars.
- Choice C is correct.** (5.NF.A.2) $\frac{1}{6} = \frac{2}{12}$. Then $\frac{5}{12} + \frac{2}{12} = \frac{7}{12}$ of the project is complete.
- Choice A is correct.** (5.NBT.A.2) $12 \times 10^3 = 12000$. The digit 1 (from 12) moves to the thousands place.
- Choice D is correct.** (5.NBT.A.3b) Compare the tenths place first: 0.25 has 2 tenths and 0.52 has 5 tenths. Since $5 > 2$, we know $0.52 > 0.25$.
- Choice B is correct.** (5.NBT.A.1) The digit in the hundredths place is 8. The number is 5.382.
- The correct answer is 5.** (5.OA.B.3) $5 = 5 \times 1$, $10 = 5 \times 2$, etc. Each A term is 5 times its B term.
- Choice D is correct.** (5.NBT.B.7) $100.50 - 67.83 = 32.67$. Requires careful borrowing.
- Choices A, B, D are correct.** (5.NBT.B.7) Line up decimal points and add. A gives 0.80, B gives 4.00, and D gives 4.00. C should be 1.10.
- Choice A is correct.** (5.NF.A.2) Multiples of 5: 5, 10, 15, 20, ... Multiples of 4: 4, 8, 12, 16, 20, ... The least common denominator is 20.
- Choice B is correct.** (5.NBT.A.2) Move the decimal 1 place left: $7.2 \div 10 = 0.72$.
- Choice B is correct.** (5.G.A.1) Both points have x-coordinate 4. Point 1 is at (4, 3) and Point 2 is at (4, 8). The vertical distance is $8 - 3 = 5$ units.
- Choice B is correct.** (5.G.B.4) A triangle is classified as isosceles if it has at least two sides of equal length. In this triangle, two sides measure 5 cm each, which are equal. Therefore, this is an isosceles triangle.
- Choice B is correct.** (5.NF.B.7c) $3 \div \frac{1}{2} = 3 \times 2 = 6$. There are 6 half-cups in 3 cups.
- Choice D is correct.** (5.NBT.A.2) The pattern shows that each time the multiplier gains a zero, the product gains one zero. $11 \times 10,000 = 110,000$ has 4 zeros.
- The correct answer is 11.** (5.OA.A.1) The parentheses give $15 + 9 = 24$. Then $24 \div 4 = 6$, and the remaining steps are $6 - 2 = 4$ and $4 + 7 = 11$.
- Choice A is correct.** (5.NF.A.1) Convert to sixths: $5\frac{2}{3} = 5\frac{4}{6}$. Borrow 1 to get $4\frac{10}{6} - 1\frac{5}{6} = 3\frac{5}{6}$.
- Choice C is correct.** (5.G.B.4) Size has nothing to do with hierarchy. A rectangle is NOT a trapezoid because a trapezoid has exactly ONE pair of parallel sides, while rectangles have TWO pairs.
- Choice D is correct.** (5.G.B.3) Every rectangle has 4 right angles (90° each). Not all rectangles have equal sides (only squares do).



Lab Notes for a Future Scientist

Dear Curious Scientist,

◇ 10 tests. Many experiments. Tons of data. You've been running a research project on yourself, and the results are clear: you are better at math today than you were when you started. That's what science calls progress, and you earned it. ◇

★ **What scientists know:** a failed experiment is still useful data. Every problem you missed taught you something. You used that data to adjust, retry, and improve. That's how science works. That's how you've been working. ★

Lab Results

- **Hypothesis:** CONFIRMED. Effort + practice = real growth.
- **Method:** STRONG. You try strategies, observe what works, and adjust.
- **Data Collection:** CAREFUL. You read carefully and copy numbers exactly.
- **Conclusion:** CONFIDENT. You're test-ready.

Scientist's tip: curious minds make great test-takers. On test day, be curious about each question. Ask, "What is this asking?" Ask, "What's the smartest way?" Then experiment, observe, and answer. You will do great.

If you want to share a proud moment or ask a question, please email me at jay@testinar.com. I'd love to hear from you!

Jay Daie

Your Math Scientist (Keep Questioning)

PRACTICE TODAY. MASTER TOMORROW.

Give your child the confidence to excel in **Grade 5 Math!**
This book includes **10 complete practice tests** designed to build strong skills, improve test readiness, and achieve success.



10

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- ✓ Results-Driven.

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- ✓ Measurement & Data
- ✓ Graphing & Data Analysis
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- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
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