

10 COMPLETE

Wisconsin

Forward Exam

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



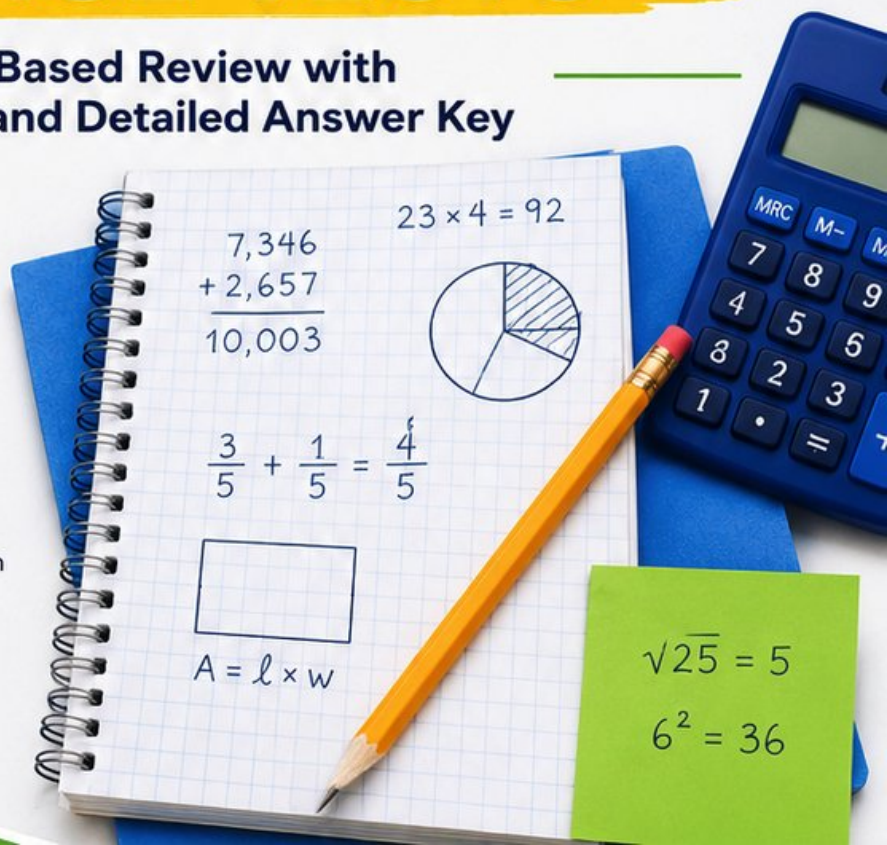
Mixed Practice

Variety of question types to strengthen skills



Detailed Answer Key

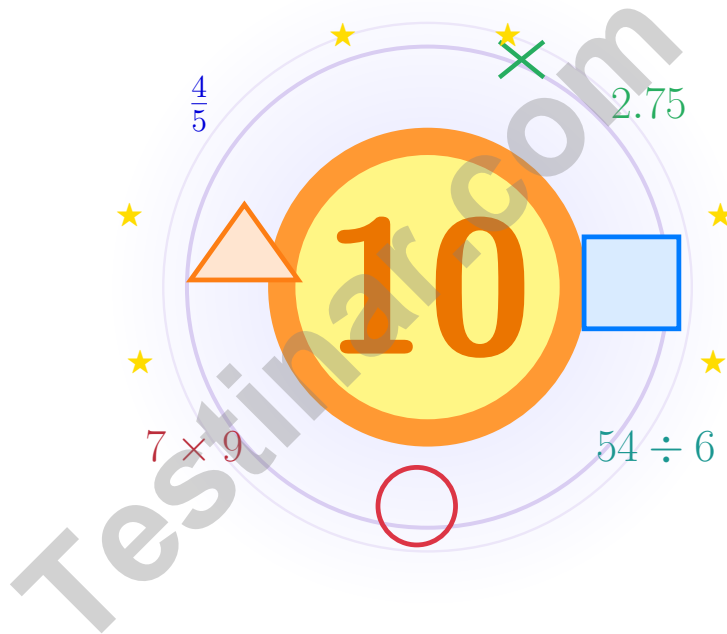
Step-by-step explanations for every question



**PREPARE.
PRACTICE.
SUCCEED!**

10 Wisconsin Forward Exam 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

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

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) Evaluate: $9 \times 2 + (10 - 3) \times 3$

A. 39

C. 42

B. 40

D. 45

2) Which shows the area of a rectangle with length $2\frac{1}{3}$ feet and width $3\frac{1}{2}$ feet?



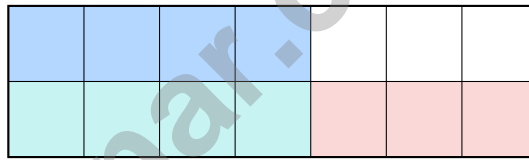
A. $8\frac{1}{6}$ square feet

C. $5\frac{5}{6}$

B. $8\frac{1}{3}$

D. 9

3) Find the product: $\frac{4}{7} \times \frac{1}{2}$



A. $\frac{4}{14}$

C. $\frac{4}{7}$

B. $\frac{1}{7}$

D. $\frac{5}{9}$

4) Find the volume of a rectangular prism with length 6 cm, width 4 cm, height 3 cm.

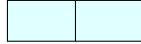
Record your answer in the space provided.



5) What is $5,600 \div 100$?

- A. 56 C. 560
 B. 56,000 D. 5.6

6) What is $\frac{1}{8} \div 2$?



$\frac{1}{8}$ split in 2

- A. $\frac{2}{8}$ C. $\frac{1}{6}$
 B. $\frac{1}{16}$ D. $\frac{4}{1}$

7) Pattern A: 0, 2, 4, 6, 8. Pattern B: 0, 4, 8, 12, 16. For the nonzero matching terms, each B value is how many times the corresponding A value?

Record your answer in the space provided.

8) A candy factory mold is a rectangular prism: $8 \text{ cm} \times 5 \text{ cm} \times 3 \text{ cm}$. Volume = ?

- A. 24 cm^3 C. 40 cm^3
 B. 16 cm^3 D. 120 cm^3

9) Arrange in order from least to greatest:

4.05, 4.4, 4.15, 4.55

- A. 4.05, 4.15, 4.4, 4.55 C. 4.15, 4.05, 4.4, 4.55
 B. 4.05, 4.4, 4.15, 4.55 D. 4.55, 4.4, 4.15, 4.05



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Area of Rectangle $A = l \times w$

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

LENGTH

Customary

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

1 yard (yd) = 3 feet (ft)

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TIME

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

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



39) Which number, when multiplied by 100, gives 45?

A. 0.045

C. 4.5

B. 450

D. 0.45

40) A bookstore packs 6 pounds of bookmarks into bundles. Each bundle uses $\frac{1}{3}$ pound of bookmarks. How many bundles can be made?

A. 12 bundles

C. 36 bundles

B. 24 bundles

D. 18 bundles

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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 A is correct.** (M.5.OA.A.1) Do the grouped and multiplication parts first: $9 \times 2 = 18$, $10 - 3 = 7$, and $7 \times 3 = 21$. Then $18 + 21 = 39$.
- Choice A is correct.** (M.5.NF.B.5a) $2\frac{1}{3} = \frac{7}{3}$ and $3\frac{1}{2} = \frac{7}{2}$. Multiply: $\frac{7}{3} \times \frac{7}{2} = \frac{49}{6} = 8\frac{1}{6}$ square feet.
- Choice A is correct.** (5.NF.B.4b) $\frac{4}{7} \times \frac{1}{2} = \frac{4}{14}$. The overlap has 4 squares out of 14 total.
- The correct answer is 72 cm³.** (M.5.MD.C.5a) Multiply the three dimensions: $6 \times 4 \times 3 = 72$ cm³.
- Choice A is correct.** (5.NBT.A.2) Dividing by 100 moves the decimal point two places to the left. $5,600 \div 100 = 56$.
- Choice B is correct.** (M.5.NF.B.7c) $\frac{1}{8} \div 2 = \frac{1}{8} \times \frac{1}{2} = \frac{1}{16}$.
- 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.** (M.5.MD.C.5a) $V = 8 \times 5 \times 3 = 40 \times 3 = 120$ cm³.
- Choice A is correct.** (5.NBT.A.3b) All ones digits are 4. Compare tenths and hundredths: $4.05 < 4.15 < 4.40 < 4.55$.
- Choice D is correct.** (5.MD.B.2) Count X marks at $\frac{1}{2}$, $\frac{3}{4}$, and 1. That is $1 + 2 + 4 = 7$ ribbons that are 1 inch or shorter.
- The correct answer is 2.** (5.G.A.1) Point P is inside Quadrant I, so its x-coordinate and y-coordinate are both positive. Points on an axis can have a 0 coordinate, but this point is not on an axis.
- Choice B is correct.** (M.5.NF.B.7b) Since $3 \div \frac{1}{6} = 3 \times 6 = 18$, the whole number is 3.
- Choice A is correct.** (5.NF.B.7c) The one-fifth amount is divided into 4 equal pieces. So the matching equation is $\frac{1}{5} \div 4 = n$.
- Choice C is correct.** (M.5.MD.A.1) Morning total: $28.7 + 19.3 = 48$ kg. Afternoon total: $31.4 + 22.6 = 54$ kg. Difference: $54 - 48 = 6$ kg.
- Choice B is correct.** (5.NBT.B.6) $15 \times 23 = 345$. Use repeated subtraction or long division: $345 \div 15 = 23$.
- Choice A is correct.** (5.NF.B.7c) This is a count of half-pound groups in 1 pound: $1 \div \frac{1}{2} = 2$ groups.
- Choice A is correct.** (5.G.A.2) P terms: 0, 3, 6, 9. Q terms: 0, 6, 12, 18.
- Choice D is correct.** (5.NBT.A.3a) 0.8 has one decimal place, which represents tenths. So $0.8 = \frac{8}{10}$.
- Choice A is correct.** (M.5.OA.A.2) A quarter of the sum is less than the original sum, and three times the sum is greater than the original sum. So the quarter is smallest, the sum is in the middle, and the triple is largest.
- Choice B is correct.** (5.NBT.A.2) $2.7 \times 100 = 270$ (move decimal 2 places right). Student Y is correct.
- Choice A is correct.** (5.NF.B.5) The factors increase from $\frac{1}{2}$ to 1 to $\frac{3}{2}$, so the products increase: 5, 10, 15.
- Choices A, B, C are correct.** (5.MD.C.5c) Volume is measured in cubic units. For non-overlapping rectangular prisms, multiply each part's dimensions and add the part volumes.
- Choice B is correct.** (5.NBT.A.2) First multiply by 1,000, moving the decimal three places right to get 500. Then divide by 10, moving one place left to get 50.
- Choice D is correct.** (M.5.NF.A.2) The LCD is the least common multiple (LCM) of the denominators—the smallest number that both divide into evenly.
- The correct answer is 3 sides.** (5.G.B.3) An equilateral triangle has 3 equal sides and 3 vertices. A square has 4 sides and 4 vertices, so the number of sides or vertices tells the shapes apart.
- Choice A is correct.** (5.NF.B.3) $\frac{1}{3} \times \frac{5}{6} = \frac{5}{18}$ hour.
- Choice A is correct.** (M.5.G.A.2) The x-axis is time, so the x-coordinate 12 means 12 seconds. The y-axis is distance, so the y-coordinate 3 means 3 meters. The interpretation matches the axes.
- Choice C is correct.** (5.MD.C.4) The bottom layer has 24 cubes. Since the prism is 2 cubes tall, there are 2 layers, so $24 \times 2 = 48$.
- Choice D is correct.** (M.5.G.B.4) An isosceles triangle has at least two equal sides, which also means it has two equal angles. This triangle has three different angle measures, so it is right scalene, not isosceles.
- Choice A is correct.** (5.MD.B.2) Add the lengths shown: $2(\frac{1}{4}) + 3(\frac{1}{2}) + 3(\frac{3}{4}) + 1 = 5\frac{1}{4}$ yards.



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

COMPLETE PRACTICE TESTS

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- ✓ Results-Driven.

More practice today for a **stronger** tomorrow.



THIS BOOK HELPS YOUR CHILD:



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Familiar, focused practice reduces anxiety and boosts self-belief.



Strengthen Skills

Reinforces key math concepts through high-quality, standards-aligned questions.



Improve Test Readiness

Full-length tests help students understand test format, pacing, and question types.



Track Progress

Identify strengths and target areas with purposeful practice.



Achieve Success

Better preparation leads to higher scores and bright futures.

COVERS ALL ESSENTIAL TOPICS

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- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Graphing & Data Analysis
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
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