

10 COMPLETE Nevada

Smarter Balanced

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



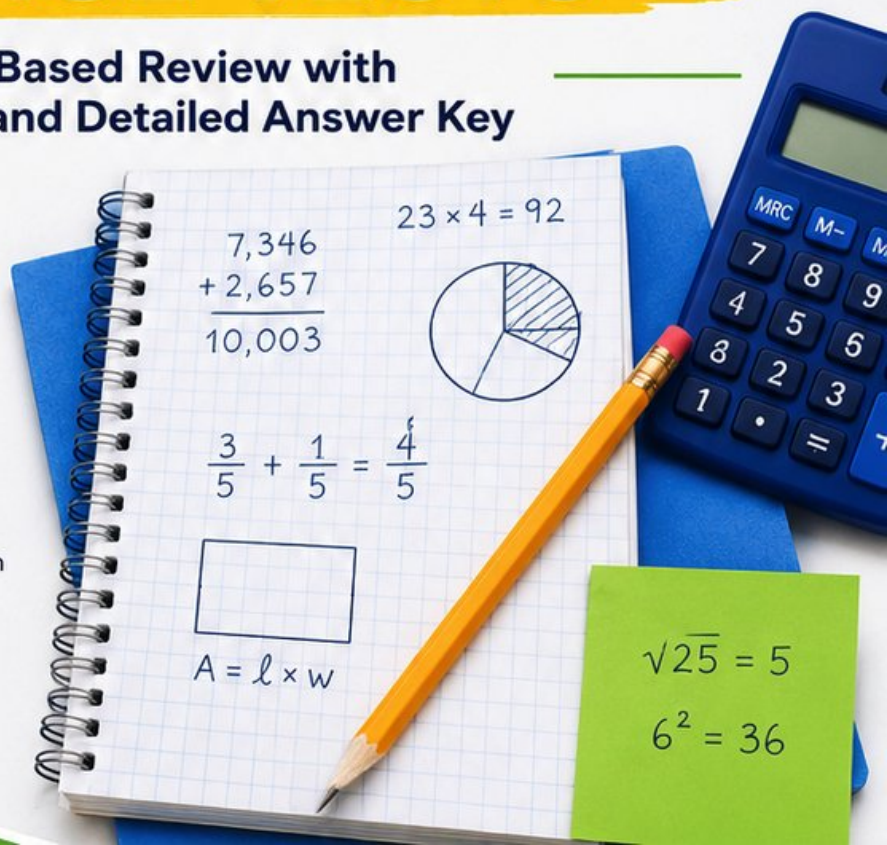
Mixed Practice

Variety of question types to strengthen skills



Detailed Answer Key

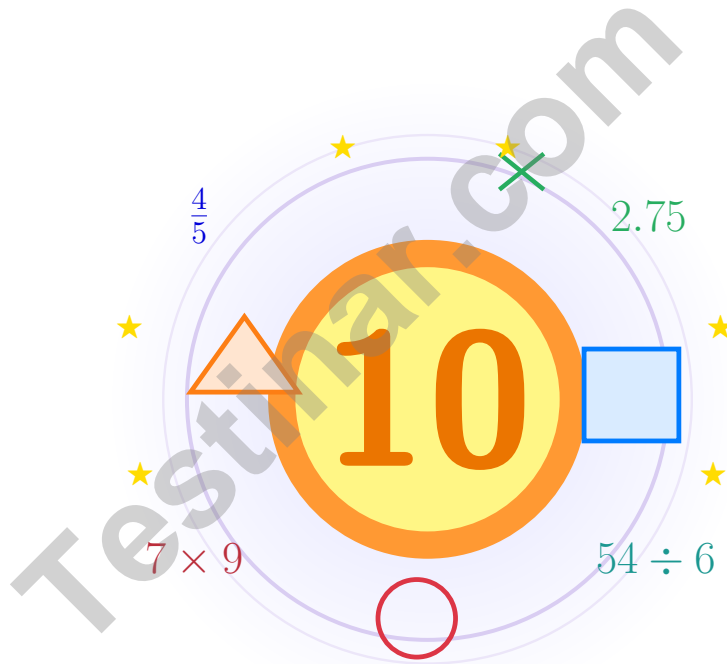
Step-by-step explanations for every question



PREPARE.
PRACTICE.
SUCCEED!

10 Nevada Smarter Balanced 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.



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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

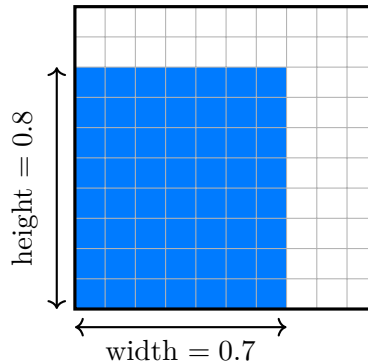
1 minute (min) = 60 seconds (sec) 1 week = 7 days

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

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



- 1) A hundredths grid shows 0.7×0.8 . How many small squares are shaded?



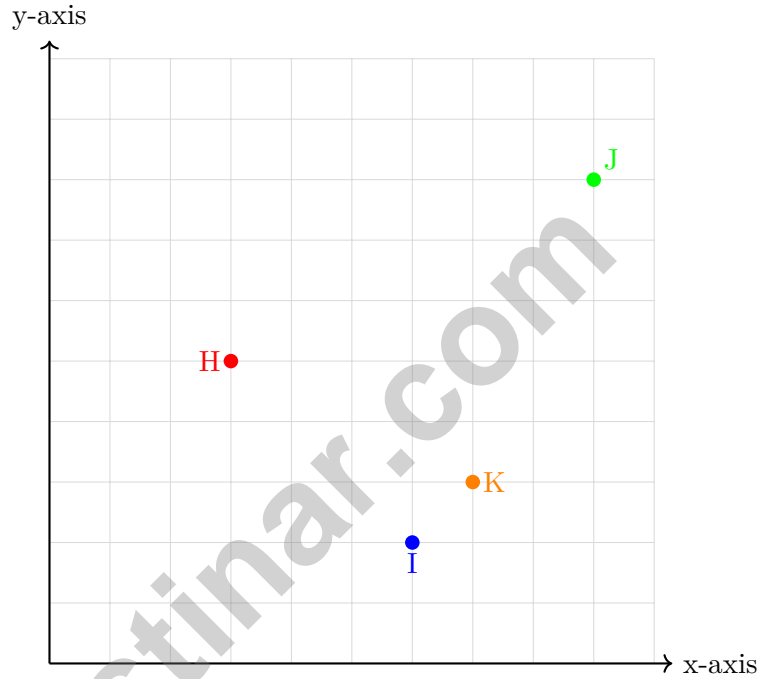
- A. 56 squares
- B. 62 squares
- C. 70 squares
- D. 80 squares
- 2) An error-analysis item: Chen added $\frac{2}{3} + \frac{1}{5}$ and got $\frac{3}{8}$. Is he correct?
- A. Yes, $\frac{3}{8}$ is correct.
- B. No, the correct answer is $\frac{8}{15}$.
- C. No, the correct answer is $\frac{2}{8}$.
- D. No, the correct answer is $\frac{13}{15}$.
- 3) A composite storage display is made from two non-overlapping rectangular prisms. Prism A is 4 centimeters long, 2 centimeters wide, and 3 centimeters tall. Prism B is 3 centimeters long, 3 centimeters wide, and 5 centimeters tall. What is the total volume?
- A. 69 cubic centimeters
- B. 24 cubic centimeters
- C. 45 cubic centimeters
- D. 77 cubic centimeters
- 4) What power of 10 is needed to make $0.025 \times ? = 2.5$?
- A. 10
- B. 100
- C. 1,000
- D. 10,000



5) A garden border uses 6 pieces of trim, each $\frac{3}{4}$ meter long. What is the total length of trim?

- | | |
|--|---|
| <input type="checkbox"/> A. $\frac{3}{24}$ meter | <input type="checkbox"/> C. $4\frac{1}{2}$ meters |
| <input type="checkbox"/> B. 2 meters | <input type="checkbox"/> D. 6 meters |

6) 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 |

7) Divide: $1,056 \div 32$

- | | |
|--------------------------------|--------------------------------|
| <input type="checkbox"/> A. 32 | <input type="checkbox"/> C. 34 |
| <input type="checkbox"/> B. 35 | <input type="checkbox"/> D. 33 |



Grade 5 Mathematics Reference Materials

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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

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1 yard (yd) = 3 feet (ft)

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

CAPACITY

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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) 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
- 2) A rectangle has length $(4 + 3)$ cm and width 5 cm. Which expression represents the area?
- A. $4 + 3 + 5$
 - B. $4 \times (3 + 5)$
 - C. $4 + 3 \times 5$
 - D. $(4 + 3) \times 5$
- 3) Compare: $7 \times (40 - 10)$ $7 \times 40 - 7 \times 10$
- A. $>$
 - B. $<$
 - C. $=$
 - D. Cannot tell
- 4) A school packs 216 seed packets equally into 18 boxes. How many seed packets are in each box?

Record your answer in the space provided.

- 5) Box A measures 8 feet by 5 feet by 4 feet. Box B measures 7 feet by 5 feet by 4 feet. Which has the greater volume, and by how much?
- A. Box A by 30 cubic feet
 - B. Box B by 25 cubic feet
 - C. They have the same volume.
 - D. Box A by 20 cubic feet



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End of Practice Test

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



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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.** (5.NBT.B.7) On a 10×10 hundredths grid, shading 7 columns (width) and 8 rows (height) gives $7 \times 8 = 56$ shaded squares, representing 0.56 or 56%.
- Choice D is correct.** (5.NF.A.1) $\text{LCM}(3,5) = 15$. $\frac{2}{3} = \frac{10}{15}$ and $\frac{1}{5} = \frac{3}{15}$. $\frac{10}{15} + \frac{3}{15} = \frac{13}{15}$. Chen incorrectly added numerators and denominators separately.
- Choice A is correct.** (5.MD.C.5c) Find each part first: Prism A is $4 \times 2 \times 3 = 24$ cubic centimeters, and Prism B is $3 \times 3 \times 5 = 45$ cubic centimeters. Because the parts do not overlap, add them: $24 + 45 = 69$ cubic centimeters.
- Choice B is correct.** (5.NBT.A.2) $0.025 \times 100 = 2.5$. Multiplying by 100 moves the decimal two places right.
- Choice C is correct.** (5.NF.B.6) Six equal pieces means $6 \times \frac{3}{4} = \frac{18}{4} = 4\frac{1}{2}$ meters.
- Choice C is correct.** (5.G.A.1) To find the farthest right point, look for the largest x-coordinate. Point J at (9, 8) has x-coordinate 9, which is the largest.
- Choice D is correct.** (5.NBT.B.6) $1,056 \div 32 = 33$. Check: $32 \times 33 = 1,056$.
- Choice D is correct.** (5.NBT.B.5) Round 298 to 300. Then $300 \times 5 = 1,500$.
- Choice C is correct.** (5.NF.A.2) $\text{LCD} = 24$. $\frac{5}{12} = \frac{10}{24}$; $\frac{1}{8} = \frac{3}{24}$. $\frac{10}{24} - \frac{3}{24} = \frac{7}{24}$.
- 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 C is correct.** (5.NF.B.7c) One yard has 5 fifth-yard pieces. $30 \div \frac{1}{5} = 30 \times 5 = 150$ wristbands.
- Choice D is correct.** (5.MD.B.2) At 80: 3 marks, At 90: 3 marks, At 100: 2 marks. Total: $3 + 3 + 2 = 8$ students scored 80 or higher.
- Choice B is correct.** (5.NBT.A.1) Adding the expanded parts: $8 + 0.5 + 0.03 + 0.001 = 8.531$.
- Choice B is correct.** (5.NF.B.7c) Since $4 \div \frac{1}{3} = 4 \times 3 = 12$, the whole number is 4.
- The correct answer is 5.** (5.MD.C.3b) Each unit cube takes up 1 cubic unit of space. A line of 5 unit cubes therefore has volume 5 cubic units.
- Choice B is correct.** (5.MD.C.5) One box has volume $4 \times 4 \times 2 = 32$ cubic centimeters. There are 5 boxes, so $32 \times 5 = 160$ cubic centimeters.
- Choice A is correct.** (5.NBT.B.7) $2.5 - 1.3 = 1.2$ cups of flour needed.
- Choices A, B are correct.** (5.NF.A.1) C is 3; D is $3\frac{3}{4}$.
- Choice D is correct.** (5.NBT.A.2) The table shows $25.4 \div 10 = 2.54$. Decimal moves 1 place left.
- Choice D is correct.** (5.G.B.4) Shapes with two pairs of parallel sides and equal sides are Rhombuses or Squares. A Rhombus has equal sides but not all right angles; a Square has both.
- Choice A is correct.** (5.NF.B.7c) $\frac{1}{2} \div 4 = \frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$.
- The correct answer is 24.** (5.NF.B.7c) Each cup contains 4 fourth-cup scoops, so 6 cups contain $6 \times 4 = 24$ scoops.
- Choice C is correct.** (5.NBT.A.2) Each division by 10 reduces the result by a factor of 10. $5,000 \div 1,000 = 5$.
- Choice D is correct.** (5.NBT.A.3b) Line up the place values: $0.25 = 0.250$. The tenths digits are both 2, but the hundredths digit in 0.250 is 5 and the hundredths digit in 0.205 is 0. So $0.25 > 0.205$.
- Choice C is correct.** (5.MD.A.1) Since 1 pound = 16 ounces, multiply 5 by 16: $5 \times 16 = 80$ ounces.
- Choice A is correct.** (5.NF.B.5a) The factors increase from $\frac{1}{2}$ to 1 to $\frac{3}{2}$, so the products increase: 5, 10, 15.
- The correct answer is 8.2.** (5.NBT.A.2) Move the decimal point two places right: $0.082 \rightarrow 8.2$.
- The correct answer is 72 cm^3 .** (5.MD.C.5a) Multiply the three dimensions: $6 \times 4 \times 3 = 72 \text{ cm}^3$.
- Choice B is correct.** (5.NBT.B.7) Subtract: $5.67 - 2.15 = 3.52$. So the missing digit (hundredths of first addend) is 2.
- Choice C is correct.** (5.NBT.A.2) $15 \times 100 = 1500$. Append two zeros to 15.
- Choice A is correct.** (5.NF.A.2) $\frac{7}{15} \approx 0.47$ and $\frac{5}{13} \approx 0.38$, so true sum ≈ 0.85 . Estimate is 1. Difference: $1 - 0.85 = 0.15 < 0.5$. The estimate is reasonable.
- Choice B is correct.** (5.MD.B.2) Longest is $\frac{5}{8}$, shortest is $\frac{1}{4}$. Difference: $\frac{5}{8} - \frac{1}{4} = \frac{5}{8} - \frac{2}{8} = \frac{3}{8}$.



Mathematical Explorer's Journey

Welcome, Brave Explorer!

◇ Phenomenal expedition! You've successfully navigated through 10 mathematical territories, exploring every concept and discovering new strategies along the way! You've mapped out the landscape of Grade 5 math with the courage of a true adventurer. Each problem was uncharted territory, and you charted it with skill and determination! ◇

★ **Wisdom from veteran explorers:** the most rewarding journeys are the ones that challenge you most. Through 10 comprehensive practice tests, you've climbed mathematical mountains, crossed conceptual rivers, and discovered solutions in places you didn't know existed. Your exploration skills are strong, your map is detailed, and you're ready for any test-day adventure! ★

Explorer's Achievement Map

- **Territory Covered:** You've explored every major mathematical concept thoroughly!
- **Navigation Skills:** You can find your way through any problem with multiple solution paths!
- **Equipment Mastered:** You know exactly which strategies to use in different situations!
- **Expedition Ready:** You're fully prepared for the ultimate test day adventure!

Important explorer wisdom: experienced adventurers always review their maps before important journeys. Take a few moments before test day to mentally review your successful strategies. Visualize yourself confidently tackling each type of problem. You've already proven you can handle the expedition!

If you'd like to share your experience or have questions, please email me at reza@testinar.com. I'd love to hear from you!

Reza Nazari & Jay Daie

Your Math Teacher and Test-Day Coach

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

- ✓ Realistic. Rigorous.
- ✓ Results-Driven.

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



THIS BOOK HELPS YOUR CHILD:



Build Confidence

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

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Graphing & Data Analysis
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ And More!



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