

10 COMPLETE

New Mexico

NM MSSA

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



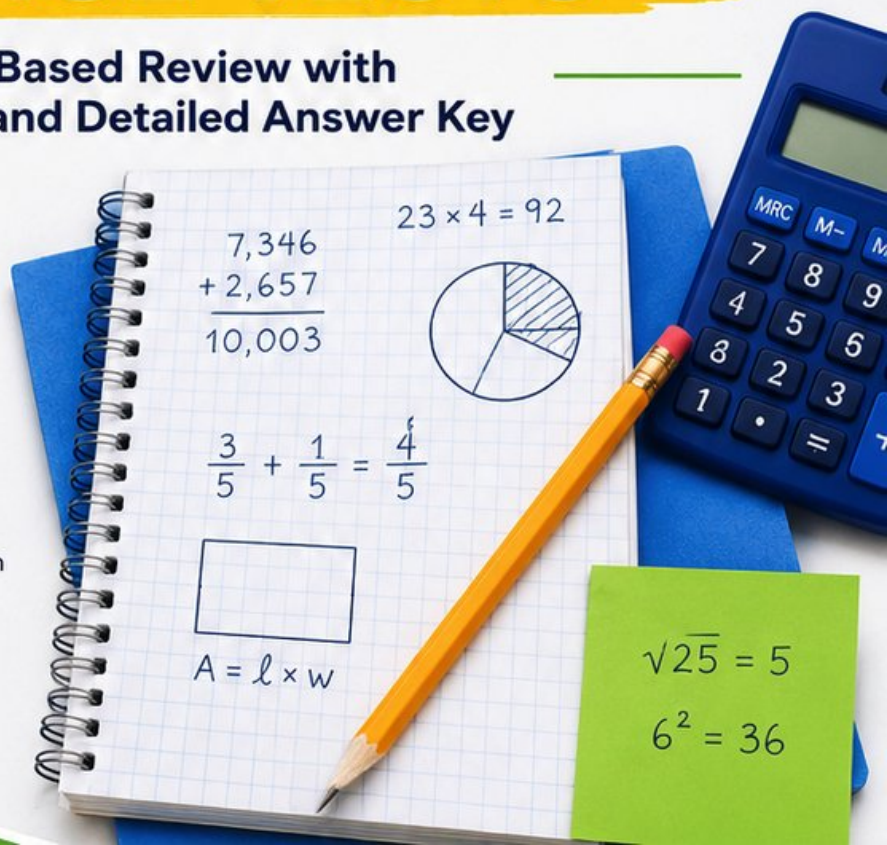
Mixed Practice

Variety of question types to strengthen skills



Detailed Answer Key

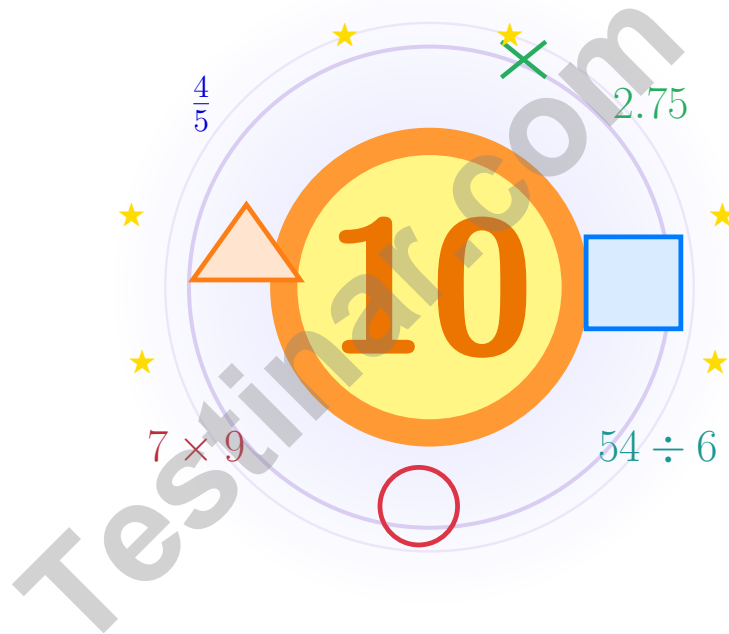
Step-by-step explanations for every question



PREPARE.
PRACTICE.
SUCCEED!

10 New Mexico NM-MSSA 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.



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)

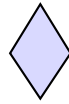
1 year = 12 months

1 day = 24 hours (hr)

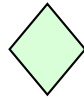
1 year = 52 weeks



1) Look at the two shapes. Which statement correctly compares their attributes?



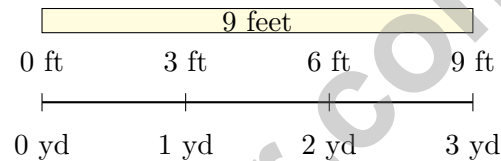
Kite



Rhombus

- A. Both are quadrilaterals, but only the rhombus must have two pairs of parallel sides.
- B. Both have exactly 3 sides.
- C. Both must have four right angles.
- D. Both must have exactly one pair of parallel sides.

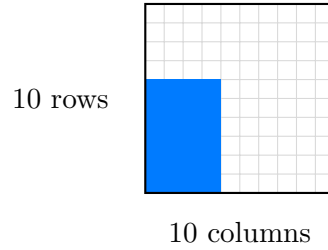
2) How many yards are in 9 feet?



- A. 2 yards
 - B. 3 yards
 - C. 4 yards
 - D. 6 yards
- 3) True or False: Every parallelogram is a quadrilateral.
- A. True, because parallelograms have four sides.
 - B. False, because parallelograms have more than four sides.
 - C. True, only for squares.
 - D. False, because they are not polygons.



- 4) A hundredths grid is divided to show decimal multiplication. If you shade 4 columns and 6 rows, what part of the grid is shaded?

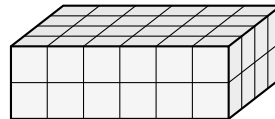


- A. 0.24 or 24 out of 100 C. 0.60 or 60 out of 100
 B. 0.40 or 40 out of 100 D. 0.10 or 10 out of 100

- 5) A prism has $L = 15$ ft, $W = 4$ ft, $H = 6$ ft. Find its volume.

Record your answer in the space provided.

- 6) A rectangular prism has 24 unit cubes on its bottom layer. If the prism is 2 cubes tall, what is its total volume?



- A. 24 unit cubes C. 48 unit cubes
 B. 26 unit cubes D. 12 unit cubes



Grade 5 Mathematics Reference Materials

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

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

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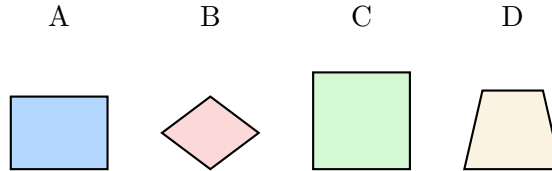


1) Evaluate: $(9 - 3) \times (4 + 2) \div 4$

- A. 6
 B. 15

- C. 12
 D. 9

2) Which shape is both a rectangle AND a rhombus?



- A. Rectangle only
 B. Rhombus only

- C. Square
 D. Trapezoid

3) A triangle has angles of 60 degrees, 60 degrees, and 60 degrees. What type of triangle is this based on its angles?

- A. Acute triangle
 B. Right triangle

- C. Obtuse triangle
 D. Isosceles triangle

4) Compare: $5 \times (40 + 60)$ $(5 \times 40) + (5 \times 60)$

- A. $>$
 B. $<$

- C. $=$
 D. Not enough info

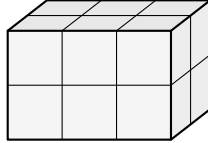
5) Estimate: $\frac{4}{9} + \frac{1}{12}$. Which benchmark is the best estimate?

- A. 0
 B. $\frac{1}{2}$

- C. 1
 D. 2



- 40) A rectangular prism is 3 units long, 2 units wide, and 2 units tall. How many unit cubes fit inside it?



- A. 7 unit cubes
- B. 12 unit cubes
- C. 10 unit cubes
- D. 8 unit cubes

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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

- 1) **Choice A is correct.** (5.G.B.3) Both shapes have 4 sides and 4 vertices. A rhombus must have two pairs of parallel sides, while a kite does not have to.
- 2) **Choice B is correct.** (5.MD.A.1) Since 1 yard = 3 feet, divide 9 by 3: $9 \div 3 = 3$ yards.
- 3) **Choice A is correct.** (5.G.B.4) A quadrilateral is any four-sided polygon. Since every parallelogram has four sides, every parallelogram is also a quadrilateral.
- 4) **Choice A is correct.** (5.NBT.B.7) On a 10×10 grid, shading 4 columns (width) and 6 rows (height) covers $4 \times 6 = 24$ squares out of 100, which is 0.24.
- 5) **The correct answer is 360 ft³.** (5.MD.C.5a) $15 \times 4 \times 6 = 360$ ft³.
- 6) **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 $24 \times 2 = 48$.
- 7) **Choice C is correct.** (5.NBT.A.3a) In 8.45, the 4 is in the tenths place (0.4) and the 5 is in the hundredths place (0.05).
- 8) **Choice B is correct.** (5.NF.A.2) $3\frac{2}{7} \approx 3$ and $1\frac{1}{8} \approx 1$. So $3\frac{2}{7} + 1\frac{1}{8} \approx 3 + 1 = 4$.
- 9) **Choice C is correct.** (5.NBT.B.7) Add from right to left: hundredths $6 + 7 = 13$, so write 3 hundredths and regroup 1 tenth. Tenths: $2 + 1 + 1 = 4$. Ones: $4 + 3 = 7$. So the sum is 7.43.
- 10) **Choice D is correct.** (5.NBT.B.5) Round 298 to 300. Then $300 \times 5 = 1,500$.
- 11) **Choice B is correct.** (5.NBT.A.2) Dividing by 100 moves the decimal two places left, so 720 becomes 7.2.
- 12) **Choice C is correct.** (5.NBT.A.4) Rounding 6.846 to the nearest hundredth: the thousandths digit is 6. Since $6 \geq 5$, round the hundredths digit up: 4 becomes 5, giving 6.85 kg.
- 13) **Choice D is correct.** (5.NF.A.2) LCD = 12. $\frac{5}{6} = \frac{10}{12}$; $\frac{1}{4} = \frac{3}{12}$. $\frac{10}{12} - \frac{3}{12} = \frac{7}{12}$.
- 14) **Choice D is correct.** (5.G.A.2) Position 3: Row 1 value is 3, Row 2 value is 30. Pair is (3, 30).
- 15) **Choice D is correct.** (5.NF.A.1) Add: $2\frac{1}{3} + 1\frac{2}{3} = 3\frac{3}{3} = 4$.
- 16) **Choice A is correct.** (5.NF.B.7c) The question is $8 \div \frac{1}{5}$. Each box makes 5 fifth-box kits, and $8 \times 5 = 40$ kits.
- 17) **Choice A is correct.** (5.NF.A.2) Common denominator 6: $\frac{1}{6} + \frac{1}{3} = \frac{1}{6} + \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$ cup.
- 18) **Choice D is correct.** (5.NBT.A.2) $0.073 \times 100 = 7.3$ because each digit shifts 2 places toward greater place values.
- 19) **The correct answer is $\frac{12}{16}$.** (5.NF.A.2) Multiply numerator and denominator by 4: $\frac{3 \times 4}{4 \times 4} = \frac{12}{16}$.
- 20) **Choice A is correct.** (5.NF.B.4) This is correct: $6 \times \frac{1}{3} = \frac{6}{3} = 2$. The student correctly multiplied the numerator by 6 and simplified.
- 21) **Choices A, B are correct.** (5.MD.C.5) Two juice boxes cost $2 \times 1.25 = 2.50$, so A is true. Then $12.40 - 2.50 = 9.90$, so B is true. C and D miscalculate the totals.
- 22) **Choice B is correct.** (5.OA.B.3) Plus-3 at step 5: $1 + 3(4) = 13$. Plus-5 at step 5: $1 + 5(4) = 21$. Difference: $21 - 13 = 8$.
- 23) **Choice A is correct.** (5.NBT.A.1) Converting fractions to decimals: $4 + 0.2 + 0.05 + 0.008 = 4.258$.
- 24) **Choice C is correct.** (5.G.B.4) A right isosceles triangle has one 90-degree angle and two equal sides (the legs).
- 25) **Choice B is correct.** (5.MD.C.3b) Volume describes how many unit cubes fit inside a solid. With 3 layers of 4 cubes, the volume is $3 \times 4 = 12$ cubic units.
- 26) **Choice D is correct.** (5.NF.B.5b) The area model shows the distributive property: $3 \times 1\frac{2}{5} = 3 \times 1 + 3 \times \frac{2}{5} = 3 + \frac{6}{5} = 4\frac{1}{5}$.
- 27) **Choice D is correct.** (5.NBT.A.2) Dividing by 10 moves the decimal point 1 place left: $4.5 \div 10 = 0.45$.
- 28) **Choice A is correct.** (5.NF.B.5a) $12 \times 1 = 12$ and $12 \times \frac{5}{4} = 15$. Since $\frac{5}{4} > 1$, multiplying by it increases the value: $15 > 12$.
- 29) **Choice B is correct.** (5.NF.B.5a) $28 \times \frac{3}{4} = 21$ square meters. Since $\frac{3}{4} < 1$, the area used is less than the original 28.
- 30) **The correct answer is 40.** (5.NF.B.7c) Each whole contains 4 fourths. Ten wholes contain $10 \times 4 = 40$ fourths, so the quotient is 40.
- 31) **Choice C is correct.** (5.G.A.2) Since term 1 is 0, term 5 has $A = 4$ and $B = 16$. Then $16 \div 4 = 4$.



Champion's Training Log

Dear Math Champion,

◇ Look at what you did. 10 full practice tests. Hundreds of math problems. Every one of them strengthened your mind. You walked into this prep series as a learner, and you are walking out as a math athlete who knows how to compete. ◇

★ **What champions know:** talent is helpful, but training is everything. You trained. You showed up. You did the work. That is why your skills are sharp today. ★

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- **Focus:** MAXED OUT! You can lock onto a problem and stay there.
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- **Mindset:** CHAMPION-LEVEL! You believe in your skills.

Final champion tip: on test day, walk in like you have trained for it—because you have. Sit down. Breathe. Read carefully. Work steadily. Check confidently. You will be amazed at how prepared you actually are.

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

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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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Improve Test Readiness

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- ✓ Graphing & Data Analysis
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ And More!



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