

5 FULL-LENGTH New Mexico NM MSSA

GRADE 5 MATH

★ PRACTICE TESTS ★



5 FULL-LENGTH
PRACTICE TESTS



COMPLETE
STANDARDS
REVIEW



SKILL PRACTICE,
WORD PROBLEMS,
AND MORE!

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



$$12 \times 3 = 36$$



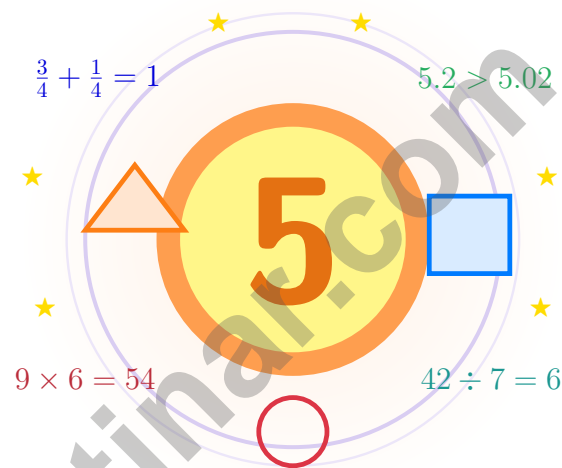
$$\frac{7}{10} = 0.7$$



BUILT FOR SUCCESS. DESIGNED TO HELP EVERY STUDENT.

5 New Mexico NM-MSSA Grade 5 Math Practice Tests

Five practice tests woven into one calm, steady routine



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

Jay Daie and Reza Nazari



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Open the Quest Map, New Mexico

Five practice tests woven into one calm, steady routine

Welcome Letter for New Mexico Math Crew

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 full of small enchantments – patterns hiding in numbers, shapes hiding in graphs, all waiting for a curious mind.

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

Notice everything the problem says, shows, and asks.

Sketch

Sketch a quick model, table, or number line.

Confirm

Confirm your answer with a quick estimate.

A strong quest habit for New Mexico: 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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A Map of the Pages

A simple routine that turns five tests into real growth

Step 1: Read

Read the quick review pages first.
Wake up important ideas before you begin so your brain is ready to use them.

Step 2: Try

Try one full test with full attention.
Find a quiet space, work carefully, and let accuracy matter more than speed.

Step 3: Reflect

Reflect on which skills want more sunlight.
Circle missed questions and look for patterns. Which skill or habit needs another try?

Step 4: Lift

Lift those skills before the next test.
Read the explanation, repair the work, and carry that lesson into the next test.

A Five-Week New Mexico Quest Map

Week	Mission Focus
Week 1	Take Test 1 like a wide enchanted morning – curious eyes everywhere.
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 $P = 2(l + w)$

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)

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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 multiplication is correct?

A. $2.3 \times 5 = 11.5$

C. $2.3 \times 5 = 115$

B. $2.3 \times 5 = 1.15$

D. $2.3 \times 5 = 10.5$

2) Subtract: $5\frac{2}{3} - 1\frac{5}{6}$. First convert to sixths.

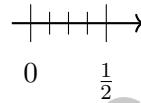
A. $3\frac{5}{6}$

C. $3\frac{2}{3}$

B. $3\frac{1}{2}$

D. $4\frac{1}{6}$

3) A number line from 0 to $\frac{1}{2}$ is divided into 4 equal segments. What is the length of each segment?



A. $\frac{1}{8}$

C. $\frac{1}{4}$

B. $\frac{1}{6}$

D. $\frac{1}{2}$

4) Pattern P: 2, 4, 6, 8, 10. Pattern Q: 6, 12, 18, 24, 30. What is the rule?

Position	Pattern P	Pattern Q
1	2	6
2	4	12
3	6	18

A. $Q = P + 4$

C. $Q = P \times 2 + 2$

B. $Q = 3 \times P$

D. $Q = P + 2$



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1) Evaluate: $\{[(50 - 20) \div 2] + 5\}$

A. 35

C. 30

B. 25

D. 20

2) Which expression represents “multiply the sum of 3 and 5 by 2”?

A. $3 + 5 \times 2$

B. $(3 + 5) \times 2$

C. $3 \times (5 + 2)$

D. $3 + (5 \times 2)$

3) A class project uses string. They have 12.5 meters, 8.75 meters, and 6.25 meters of string. What is the total length?

$$\begin{array}{r} 12.5 \text{ m} \\ 8.75 \text{ m} \\ 6.25 \text{ m} \\ \hline \end{array}$$

A. 27.5 meters

C. 25.5 meters

B. 26.5 meters

D. 28.5 meters

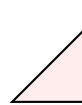
4) Which triangle is equilateral?



A



B



C



D

A. A

C. C

B. B

D. D



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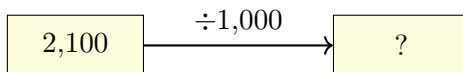
1 day = 24 hours (hr) 1 year = 52 weeks



1) A triangle has sides of 8 cm, 8 cm, and 8 cm. Each angle is less than 90° . How should the triangle be classified by its sides and by its angles?

- A. Equilateral acute C. Scalene acute
 B. Isosceles right D. Equilateral obtuse

2) Show the division with an arrow diagram:



What is $2,100 \div 1,000$?

- A. 2.1 C. 210
 B. 21 D. 2,100

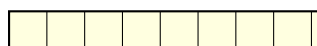
3) In the number 56.243, what digit is in the thousandths place?

- A. 2 C. 4
 B. 3 D. 6

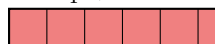
4) Which number multiplied by 10 equals 3.8?

- A. 0.38 C. 38
 B. 3.8 D. 380

5) Subtract: $8\frac{1}{4} - 5\frac{2}{4}$.



$8\frac{1}{4}$ (8 wholes + $\frac{1}{4}$)



$5\frac{2}{4}$ (5 wholes + $\frac{2}{4}$)

- A. $2\frac{3}{4}$ C. $3\frac{2}{4}$
 B. $3\frac{1}{4}$ D. $3\frac{3}{4}$



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1) Which pair of expressions has the same value?

- A. $3 \times (4 + 5)$ and $3 \times 4 + 5$
 B. $2 \times (10 - 3)$ and $2 \times 10 - 3$
 C. $4 \times (6 + 2)$ and $4 \times 6 + 4 \times 2$
 D. $5 + (3 \times 7)$ and $(5 + 3) \times 7$

2) A drink recipe makes 8 servings and requires 2 cups 4 fluid ounces of juice. To make 2 servings, how much juice is needed?

Use: 1 cup = 8 fluid ounces

- A. 12 fluid ounces
 B. 7 fluid ounces
 C. 10 fluid ounces
 D. 5 fluid ounces

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



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

- A. $\frac{1}{10}$
 B. $\frac{1}{6}$
 C. $\frac{8}{2}$
 D. $\frac{1}{16}$

4) Find: $945 \div 21$.

Record your answer in the space provided.



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.NBT.B.7) Multiply: $23 \times 5 = 115$, then place decimal one place from right: 11.5.
- 2) **Choice A is correct.** (5.NF.A.1) Convert to sixths: $5\frac{2}{3} = 5\frac{4}{6}$. Borrow 1 to get $4\frac{10}{6} - 1\frac{5}{6} = 3\frac{5}{6}$.
- 3) **Choice A is correct.** (5.NF.B.7c) $\frac{1}{2} \div 4 = \frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$.
- 4) **Choice B is correct.** (5.OA.B.3) Pattern Q is always 3 times Pattern P: $2 \times 3 = 6$, $4 \times 3 = 12$, $6 \times 3 = 18$.
- 5) **Choice B is correct.** (5.MD.A.1) First find the number of sections: $12 \div 2 = 6$. Then find the tape used: $6 \times 8 = 48$ inches. Convert 48 inches to feet: $48 \div 12 = 4$ feet.
- 6) **Choice B is correct.** (5.OA.A.1) The correct work multiplies before adding. Student B finds $2 \times 5 = 10$ first, then adds $6 + 10 = 16$.
- 7) **Choice D is correct.** (5.NF.A.1) Add: $2\frac{3}{5} + 3\frac{1}{5} = 5\frac{4}{5}$.
- 8) **Choice D is correct.** (5.MD.C.5a) One box has volume $3 \times 3 \times 2 = 18$ cubic feet. Ten boxes have total volume $18 \times 10 = 180$ cubic feet.
- 9) **Choice C is correct.** (5.MD.C.5) The base area is $10 \times 10 = 100$ square inches. Since $500 \div 100 = 5$, the height is 5 in.
- 10) **Choice C is correct.** (5.NF.B.7c) Each yard has 6 one-sixth-yard pieces. $5 \div \frac{1}{6} = 5 \times 6 = 30$ cushions.
- 11) **Choice B is correct.** (5.NF.B.5a) $1\frac{1}{10} > 1 > \frac{9}{10} > \frac{4}{5}$, so the largest factor produces the largest product.
- 12) **Choice A is correct.** (5.NBT.A.3a) 85 out of 100 squares shaded represents $\frac{85}{100} = 0.85$.
- 13) **Choice B is correct.** (5.MD.A.1) 1 centimeter = 10 millimeters. Divide: $450 \div 10 = 45$ cm.
- 14) **Choice B is correct.** (5.OA.B.3) Multiples of 11: 20th multiple is $11 \times 20 = 220$.
- 15) **Choice D is correct.** (5.NBT.A.4) The tenths digit is 7. Since $7 \geq 5$, round ones up: $92 \rightarrow 93$. The test score rounds to 93.
- 16) **The correct answer is 4.62.** (5.NBT.B.7) Line up decimal points and subtract place by place. $7.00 - 2.38 = 4.62$. This confirms the answer.
- 17) **Choice C is correct.** (5.NF.A.2) $\frac{2}{3} = \frac{2 \times 4}{3 \times 4} = \frac{8}{12}$ and $\frac{1}{4} = \frac{1 \times 3}{4 \times 3} = \frac{3}{12}$. Both are correct.
- 18) **Choices A, B are correct.** (5.G.B.4) An equilateral triangle has three equal sides, and a right triangle has one 90° angle. C describes isosceles, and D contradicts obtuse.
- 19) **Choice B is correct.** (5.NF.A.2) $3\frac{11}{12} \approx 4$ and $4\frac{1}{11} \approx 4$. So $3\frac{11}{12} + 4\frac{1}{11} \approx 4 + 4 = 8$.
- 20) **Choice C is correct.** (5.NBT.A.2) $12 \times 100 = 1200$. Append two zeros to 12.
- 21) **Choice D is correct.** (5.NBT.A.2) Multiplying 3.2 by 100 moves the decimal two places right, giving 320.
- 22) **Choice D is correct.** (5.NF.B.7c) The unit fraction is the amount being shared, so divide $\frac{1}{10}$ by 5. The equation is $\frac{1}{10} \div 5 = n$.
- 23) **Choice C is correct.** (5.NF.B.5a) Since $\frac{7}{8} < 1$, multiplying 20 by it gives a result smaller than 20. No computation needed!
- 24) **Choice C is correct.** (5.NBT.A.1) Read the digits to the right of the decimal point in order: 7 is in the tenths place, 5 is in the hundredths place, and 4 is in the thousandths place. So the digit 5 is in the hundredths place.
- 25) **Choice D is correct.** (5.NBT.B.7) Add: $\$12.34 + \$15.67 = \$28.01$; then $\$28.01 + \$18.92 = \$46.93$.
- 26) **Choice A is correct.** (5.NBT.A.2) Use the fact $4 \times 6 = 24$. The factors 4,000 and 60 bring four zeros total, so the product is 240,000.
- 27) **The correct answer is 36855.** (5.NBT.B.5) $819 \times 5 = 4,095$ and $819 \times 40 = 32,760$. Sum: $4,095 + 32,760 = 36,855$.
- 28) **Choice D is correct.** (5.NBT.A.2) $4.2 \div 100 = 0.042$. A equals 4.2, while C and D each equal 0.42. B matches.
- 29) **Choice D is correct.** (5.NF.A.2) $\frac{3}{8} + \frac{1}{8} = \frac{4}{8} = \frac{1}{2}$ of the land is planted.
- 30) **Choice A is correct.** (5.NBT.B.6) $288 \div 12 = 24$ pencils per classroom. Check: $12 \times 24 = 288$.
- 31) **The correct answer is 5.** (5.G.A.2) The first number in an ordered pair is the x-coordinate.
- 32) **The correct answer is 17 more.** (5.OA.A.2) The expression $(8 + 4) + 17$ is exactly $(8 + 4)$ with 17 added. Accept equivalent wording that says the value is 17 more, including that 17 is added after finding $8 + 4$.



Hey there, Math Olympian!

★ Olympic-level performance! You've trained through five rigorous practice events, building stamina, strength, and strategic skills like a world-class athlete! Just as Olympians don't achieve greatness overnight, you've put in the dedicated practice necessary for excellence. Every test was training for the main event, and now you're in peak mathematical form! ★

◇ **Here's what Olympic champions understand:** mental preparation is just as important as physical practice. They visualize success, develop consistent routines, and trust their training when competition begins. You've developed those same championship qualities through these five tests! You've trained your mathematical muscles, and now they respond automatically when you need them! ◇

Olympic Training Results

- **Endurance:** You can maintain focus through entire tests without mental fatigue!
- **Speed with Accuracy:** You balance efficiency with precision like a champion!
- **Mental Toughness:** You persist through challenging problems with determination!
- **Competition Ready:** You're prepared to perform at your highest level!

Remember this championship wisdom: Olympic athletes visualize their performance before competing. Take a few moments before test day to mentally rehearse your success. Picture yourself reading questions confidently, applying your strategies smoothly, and completing the test with satisfaction. You've trained for this moment now trust your preparation!

Want to share your training insights or celebrate a breakthrough moment? Contact your coach at reza@testinar.com. I'm proud of your dedication!

Reza Nazari & Jay Daie
Your Math Coaches for Smart Strategies

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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!

WHAT'S INSIDE:



5 FULL-LENGTH PRACTICE TESTS

Realistic tests that build familiarity, boost focus, and improve test readiness.



COMPLETE STANDARDS REVIEW

Covers all essential Grade 5 math topics with clear explanations and examples.



SKILL PRACTICE

Strengthen key math skills through a wide variety of practice questions.



WORD PROBLEMS

Build critical thinking and problem-solving skills with real-world questions.



FULL ANSWER KEY

Step-by-step explanations for every question to help students learn and improve.



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Build Confidence
with consistent
practice



Improve Accuracy
and problem-
solving skills



Time Management
strategies for
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