

5 FULL-LENGTH Missouri MAP

GRADE 5 MATH

★ PRACTICE TESTS ★



5 FULL-LENGTH
PRACTICE TESTS



COMPLETE
STANDARDS
REVIEW



SKILL PRACTICE,
WORD PROBLEMS,
AND MORE!

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



$$12 \times 3 = 36$$



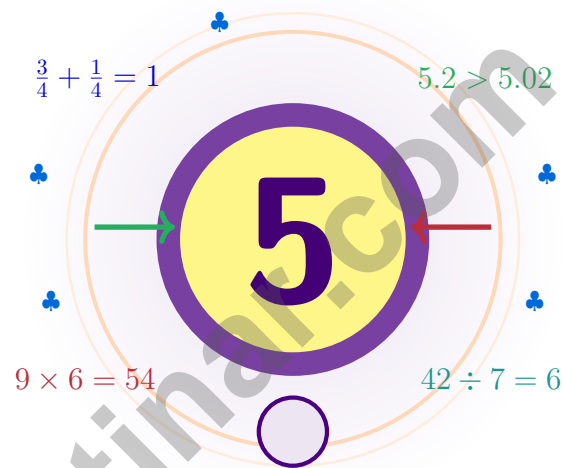
$$\frac{7}{10} = 0.7$$



BUILT FOR SUCCESS. DESIGNED TO HELP EVERY STUDENT.

5 Missouri MAP Grade 5 Math Practice Tests

Five full tests woven into one calm, steady quest



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

Jay Daie and Reza Nazari



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Missouri, Your Five-Test Quest Begins

Five full tests woven into one calm, steady quest

Dear Missouri Math Quest 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 like the Gateway Arch – it stands strong because every careful step in the design holds the whole thing up.

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.

Look

Look at the problem
like a careful detective.

Test

Test your idea one
careful step at a time.

Repair

Repair what was off
and try the next one.

A strong quest habit for Missouri: 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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Your Five-Step Quest Plan

A simple routine that turns five tests into real growth

Step 1: Notice

Notice the structure: warm-up, test, review, repair.

Wake up important ideas before you begin so your brain is ready to use them.

Step 2: Practice

Practice one full test in quiet conditions.

Find a quiet space, work carefully, and let accuracy matter more than speed.

Step 3: Honest Check

Check honestly without rushing.

Circle missed questions and look for patterns. Which skill or habit needs another try?

Step 4: Polish

Polish the rough spots before test number two.

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

A Five-Week Missouri Quest Map

Week	Mission Focus
Week 1	Take Test 1 and show me your starting work.
Week 2	Take Test 2 and notice one habit that grew steadier.
Week 3	Take Test 3 and polish fractions, decimals, and conversions.
Week 4	Take Test 4 and slow down on multi-step problems.
Week 5	Take Test 5 with calm, careful, confidently shown work.



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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

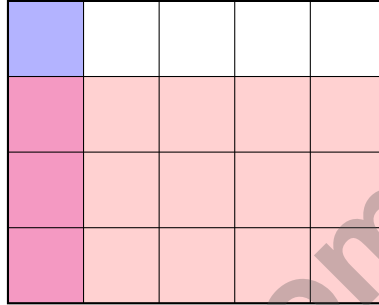
1 day = 24 hours (hr) 1 year = 52 weeks



1) 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

2) The area model shown represents $\frac{1}{5} \times \frac{3}{4}$.



What is the product?

- A. $\frac{1}{9}$
 C. $\frac{1}{5}$
 B. $\frac{3}{20}$
 D. $\frac{3}{5}$

3) Pattern A starts at 0 and adds 4. Pattern B starts at 0 and adds 1. What ordered pair (A, B) comes after one step?

Record your answer in the space provided.



4) Find the difference: $\frac{11}{12} - \frac{2}{3}$.

Record your answer in the space provided.

5) Compute $11.25 - 5.43$.

A. 5.82

C. 5.72

B. 6.15

D. 6.82

6) One eighth pound of nuts is shared equally among 4 bags. Which division equation finds each share?

A. $4 \div \frac{1}{8} = n$

C. $\frac{1}{8} \div 4 = n$

B. $\frac{1}{8} \times 4 = n$

D. $4 + \frac{1}{8} = n$

7) Without calculating, how does $(18 \times 5) + 3$ compare with 18×5 ?

A. 3 less

C. 3 times as large

B. $\frac{1}{3}$ as large

D. 3 more

8) Multiply: $\frac{2}{9} \times \frac{3}{4}$

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

C. $\frac{2}{4}$

B. $\frac{5}{13}$

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



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- 1) Use partial quotients to divide $765 \div 17$:

$$\begin{array}{r} 765 \div 17 \\ \hline 17 \times 30 = 510 \quad 765 - 510 = 255 \\ 17 \times 15 = 255 \quad 255 - 255 = 0 \\ \hline 30 + 15 = 45 \end{array}$$

- A. 43 C. 47
 B. 49 D. 45
- 2) What is 2.8 liters in milliliters?
- A. 280 mL C. 28,000 mL
 B. 2,800 mL D. 280,000 mL
- 3) If you know the volume is 336 cm^3 and two dimensions are 12 cm and 7 cm, what is the third dimension?
- A. 3 cm C. 5 cm
 B. 6 cm D. 4 cm
- 4) A graph tracks the amount of money saved each week. The point (7, 35) represents how much money was saved after how many weeks?
- A. \$7 after 35 weeks C. \$42 total
 B. \$7 saved after 5 weeks D. \$35 after 7 weeks



Grade 5 Mathematics Reference Materials

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1) Missing value: $0.8 \times \underline{\hspace{2cm}} = 80$. What power of 10 completes this?

- A. 10
 B. 100

- C. 1000
 D. 10000

2) Estimate: $10 - 4\frac{11}{12}$.

- A. 4
 B. 5

- C. 6
 D. 7

3) Which product is greater: $11 \times \frac{7}{8}$ or $11 \times \frac{8}{7}$?

- A. $11 \times \frac{7}{8}$
 B. $11 \times \frac{8}{7}$

- C. They are equal
 D. Cannot be compared

4) Which number is greatest: 0.76, 0.9, or 0.84?

Record your answer in the space provided.

5) Without calculating, which expression is three times as much as $(8 + 5)$?

- A. $3 + (8 + 5)$
 B. $(8 + 5) - 3$

- C. $(8 + 5) \div 3$
 D. $3 \times (8 + 5)$

6) What is $0.3 \div 100$?

- A. 0.03
 B. 30

- C. 3
 D. 0.003



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 D is correct.** **(5.GM.B.5)** $V = 8 \times 5 \times 3 = 40 \times 3 = 120 \text{ cm}^3$.
- 2) **Choice B is correct.** **(5.GM.B.5)** The blue region is 1 out of 5. The red region is 3 out of 4. The overlap is 3 out of 20 squares: $\frac{1}{5} \times \frac{3}{4} = \frac{3}{20}$.
- 3) **The correct answer is (4, 1).** **(5.GM.C.7)** Start with (0, 0). After one step, A is 4 and B is 1, giving (4, 1).
- 4) **The correct answer is $\frac{1}{4}$.** **(5.NF.B.6)** $\frac{2}{3} = \frac{8}{12}$. Difference: $\frac{3}{12} = \frac{1}{4}$.
- 5) **Choice A is correct.** **(5.NBT.A.6)** $11.25 - 5.43 = 5.82$. Align decimals and subtract each place.
- 6) **Choice C is correct.** **(5.NF.B.8)** The unit fraction is the amount being shared, so divide $\frac{1}{8}$ by 4. The equation is $\frac{1}{8} \div 4 = n$.
- 7) **Choice D is correct.** **(5.RA.B.3)** The expression $(18 \times 5) + 3$ is the value of 18×5 with 3 added. So it is 3 more than 18×5 .
- 8) **Choice A is correct.** **(5.NF.B.5)** $\frac{2}{9} \times \frac{3}{4} = \frac{6}{36}$. Simplify by dividing numerator and denominator by 6: $\frac{6}{36} = \frac{1}{6}$.
- 9) **Choice B is correct.** **(5.GM.B.5)** Prism B has volume $7 \times 4 \times 4 = 112$ cubic units, which is the greatest.
- 10) **Choice D is correct.** **(5.GM.C.7)** The second coordinate should be 1 more than the first. For (5, 7), $5 + 1 = 6$, not 7. All other points fit the rule.
- 11) **Choice B is correct.** **(5.NBT.A.8)** Sum the partial products: $400 + 10 + 360 + 9 = 779$.
- 12) **Choice D is correct.** **(5.NF.B.8)** A half-mile is $\frac{1}{2}$ mile, and each mile has 2 half-mile laps. $6 \div \frac{1}{2} = 12$ laps.
- 13) **The correct answer is 48.** **(5.GM.B.4)** There are 8 cubes in each row and 3 rows per layer, so each layer has 24 cubes. Two layers make $24 \times 2 = 48$ cubes.
- 14) **Choice B is correct.** **(5.NF.B.6)** Add: $\frac{9}{10} + 4\frac{1}{10} = 5$.
- 15) **Choice D is correct.** **(5.RA.C.5)** Adult tickets: $3 \times 22.50 = 67.50$ dollars. Student tickets: $5 \times 15.00 = 75.00$ dollars. Total: $67.50 + 75.00 = 142.50$ dollars.
- 16) **Choice C is correct.** **(5.NBT.A.4)** The nonzero part 4×25 makes 100, which has two zeros. The factor 400 adds two more zeros, so the product has 4 zeros.
- 17) **Choice A is correct.** **(5.GM.A.2)** A triangle with three equal side lengths is equilateral.
- 18) **Choice B is correct.** **(5.NF.B.6)** $\frac{1 \times 5}{6 \times 5} = \frac{5}{30}$.
- 19) **Choice A is correct.** **(5.RA.B.3)** Check each choice carefully. A gives $6 \div 6 - 1 = 1 - 1 = 0$, while B gives 8, C gives 2, and D gives 1. Only A equals 0.
- 20) **Choice B is correct.** **(5.GM.B.4)** Box X: $4 \times 5 \times 8 = 160$ cu. cm. Box Y: $2 \times 10 \times ? = 160$. So $20 \times ? = 160$, thus $? = 8$ cm.
- 21) **Choices A, B are correct.** **(5.DS.A.2)** The two eighths and one fourth add to $\frac{1}{2}$ lb. Splitting $\frac{1}{2}$ lb equally between 2 groups gives $\frac{1}{4}$ lb each.
- 22) **Choice D is correct.** **(5.NF.B.7)** Multiplying by 7 means 7 groups of $\frac{1}{9}$. That gives $\frac{7}{9}$ in all.
- 23) **Choice D is correct.** **(5.NF.B.5)** The area model shows the distributive property: $3 \times 1\frac{2}{5} = 3 \times 1 + 3 \times \frac{2}{5} = 3 + \frac{6}{5} = 4\frac{1}{5}$.
- 24) **Choice C is correct.** **(5.RA.B.3)** The phrase “the sum of 8 and 3” means group $8 + 3$. Then multiply by 4 and subtract the product 2×6 .
- 25) **Choice B is correct.** **(5.GM.B.5)** The known length and height make groups of $18 \times 8 = 144$ cubic inches. Since $432 \div 144 = 3$, the width is 3 inches.
- 26) **Choice D is correct.** **(5.NBT.A.4)** Each step multiplies by another factor of 10, so the decimal moves one place right each time: 0.08, 0.8, 8, 80.
- 27) **Choice B is correct.** **(5.NF.B.6)** $\frac{3}{5} \times \frac{5}{6} = \frac{15}{30}$, which simplifies to $\frac{1}{2}$ meter.
- 28) **Choice C is correct.** **(5.NBT.A.4)** Multiply by 1000: move decimal 3 places right: $9.2 \times 1000 = 9200$.
- 29) **Choice C is correct.** **(5.GM.B.5)** Use the rectangular-prism volume formula: $6 \times 7 \times 8 = 336$. So the volume is 336 cubic feet.



Director's Notes: Final Scene

Greetings, Star Performer!

★ Spectacular performance! You've rehearsed five complete mathematical productions, perfecting your delivery and timing like a professional actor! Each test was a dress rehearsal, allowing you to fine-tune your performance, discover your strengths, and polish your techniques. Opening night (test day) approaches, and you're absolutely ready for the spotlight! ★

◇ **Here's what acclaimed performers understand:** confidence comes from thorough preparation. Professional actors rehearse extensively so that when the curtain rises, they can perform naturally and confidently. You've completed your rehearsals five of them! Your mathematical performance skills are polished and ready. Trust your preparation and deliver an outstanding show! ◇

Performance Review Notes

1. **Character Development:** You understand your mathematical role completely!
2. **Stage Presence:** You approach problems with confidence and poise!
3. **Line Delivery:** You express solutions clearly and accurately!
4. **Show Ready:** You're prepared for a standing ovation!

Remember this performance wisdom: great actors don't memorize words they understand characters. You haven't just memorized procedures you understand mathematical concepts. That deep understanding means you can adapt to any question variation. When the test begins, step into your role confidently and perform brilliantly!

Want to share your mathematical performance insights or celebrate a particularly elegant solution? Send your reviews to reza@testinar.com. I appreciate mathematical artistry!

Reza Nazari & Jay Daie

Your Math Coaches—Keep Going!

5 FULL-LENGTH TESTS. STRONG SKILLS. BRIGHTER RESULTS.



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!

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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.



PRACTICE MORE. LEARN BETTER. SUCCEED ANYWHERE.



Build Confidence
with consistent
practice



Improve Accuracy
and problem-
solving skills



Time Management
strategies for
test success



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