

$\frac{2}{3}$

FULL-LENGTH

$\frac{2}{4}$

0,25

Missouri

$7 \times 8 =$



Aligned to State Standards

MAP

7×8

MATH

$56 \div 7$

Grade

5

$(a+b)^2$

PRACTICE TESTS

Complete State Standards Review
with Answer Key and
Essential Math Skills Practice



3 Full-Length Practice Tests
Aligned to State Standards



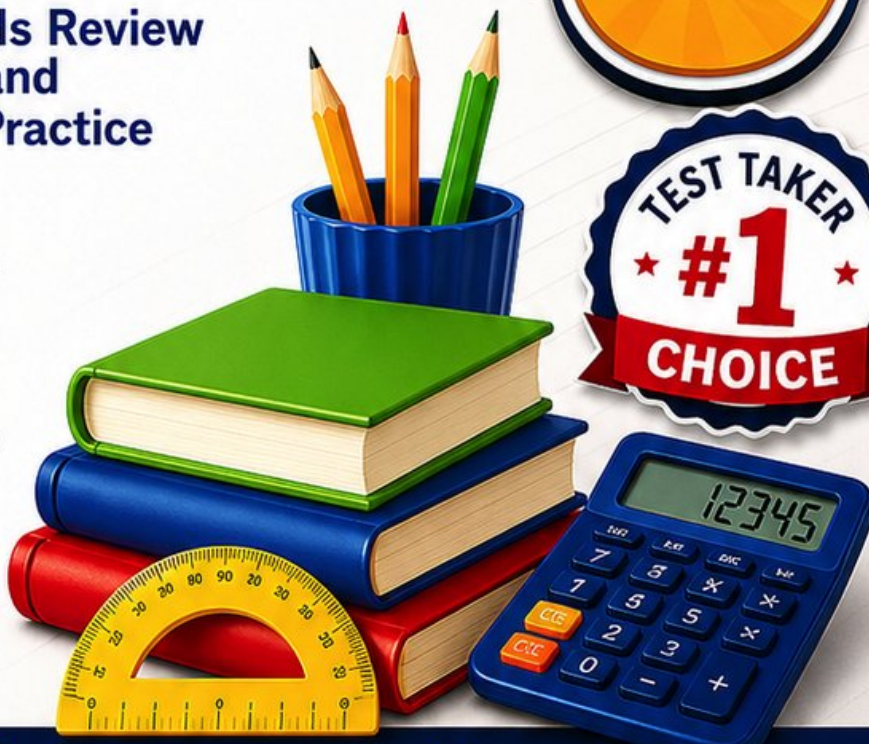
Covers All Grade 5 Math Topics
Numbers & Operations, Fractions,
Decimals, Geometry, Measurement,
Data & Problem Solving



Build Confidence
Strengthen Skills • Improve Accuracy
• Boost Test Readiness



Detailed Answer Key
Step-by-Step Explanations
for All Questions



WRITTEN FOR
GRADE 5 STUDENTS



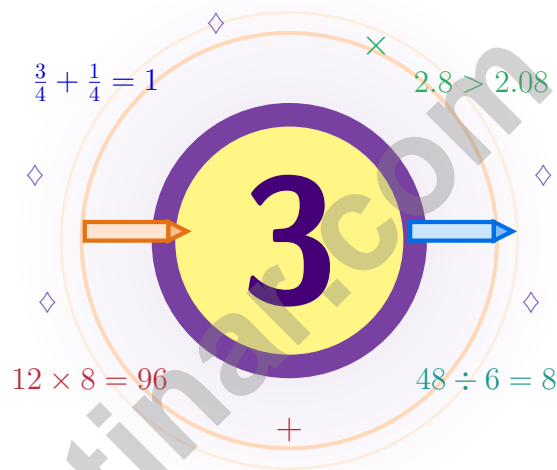
PERFECT FOR
TEST PREP & REVIEW



CLASSROOM, HOME,
OR SELF-STUDY USE

3 Missouri MAP Grade 5 Math Practice Tests

Show-Me-State math for thinkers who prove it



Three full tests, a friendly quick review, smart strategy pages, and student-tested support that help Grade 5 mathematicians from The Show-Me State walk in ready to think.

Jay Daie and Reza Nazari



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Hello, Missouri Problem Solver

Show-Me-State math for thinkers who prove it

Dear Missouri Math Thinker

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 from the very first read. Others will ask you to pause, sketch, estimate, or try again. That is not a problem. That is practice doing exactly what it should do. Every honest attempt grows your math brain a little stronger.

See

See the question fully
before you start the
math.

Plan

Pick a strategy that fits
the numbers in front of
you.

Build

Build the answer step
by step, no shortcuts.

A Missouri promise to yourself: I will not just say I know it. I will show it – with clear steps and clear thinking.

Your Game Plan

A simple game plan that turns practice into real progress

Step 1: Set

Set the table – pencil ready, distractions gone.

Wake up the big Grade 5 ideas before the test starts so your brain is already warmed up.

Step 2: Solve

Take one whole test in one quiet sitting.

Find a calm corner, settle in, and aim for careful, honest choices before quick ones.

Step 3: Look Back

Walk through your answers without rushing.

Circle missed questions, sort out what went sideways, and notice which skills are calling for more attention.

Step 4: Climb

Pick one or two skills to sharpen before next time.

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

Your 3-Week Missouri Plan

Week 1	Test 1 sets your baseline. Notice what feels easy and what wobbles.
Week 2	Test 2 is for repair. Slow down on the topics that tripped you up.
Week 3	Test 3 is for proof. Show how steady your thinking has become.



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What These Tests Build

What these practice tests help Grade 5 students build

These three practice tests prepare Grade 5 students in the Show-Me State for the Missouri MAP with the patient pride of a Mississippi crossing. The goal is bigger than getting answers right. Students are practicing how to read with care, choose a strategy, solve step by step, and explain their reasoning clearly – the same way mathematicians do every single day.

Selected-Response Questions

Students solve the problem and choose the best answer. Estimating first, ruling out weak choices, and checking for reasonableness can save both time and points.

Constructed-Response Questions

Students show their steps, explain a method, or back up an answer with clear math. Clean reasoning matters because it shows how the answer was actually found.

Grade 5 Ideas That Show Up Again and Again

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, mixed numbers, and decimals
- perimeter, area, volume, and measurement conversions
- line plots, tables, numerical patterns, and coordinate points
- geometry and multi-step real-world problems

What strong work looks like on the MAP: the math is correct, the steps are readable, the labels and units match the problem, and the final answer truly answers the question being asked.



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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

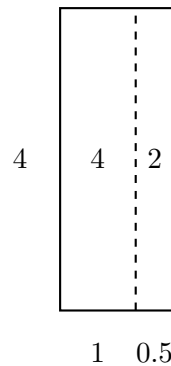
1 minute (min) = 60 seconds (sec) 1 week = 7 days

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

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



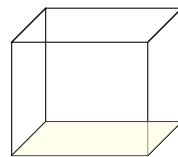
- 1) An area model shows multiplication. What is 1.5×4 ?



- A. 5
- B. 5.5
- C. 6
- D. 6.5
- 2) A rectangular prism has a volume of 336 cubic meters. If two dimensions are 7 meters and 8 meters, what is the third dimension?

- A. 4 meters
- B. 6 meters
- C. 8 meters
- D. 12 meters

Height = 10 cm



Base Area = 16 cm^2

3)

Calculate volume using $V = B \times h$.

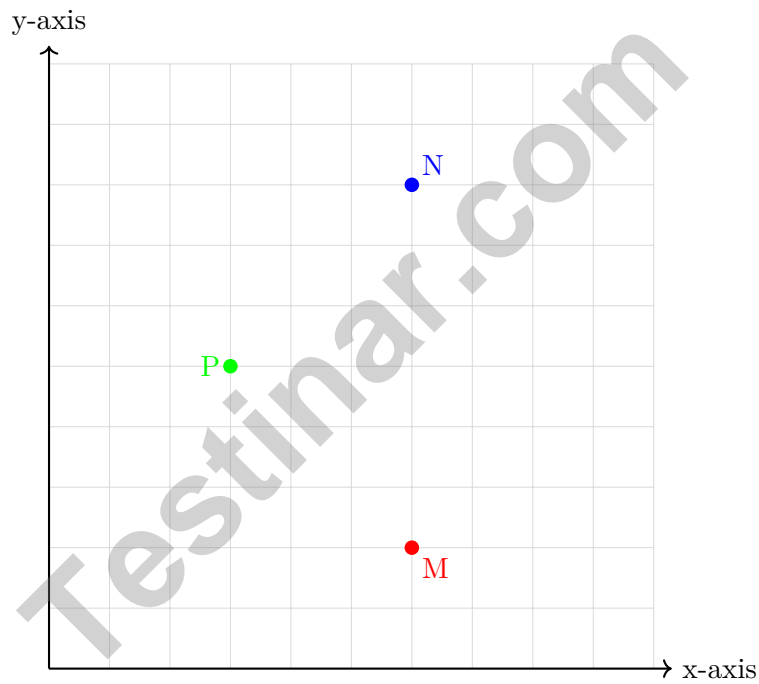
- A. 160 cm^3
- B. 6 cm^3
- C. 26 cm^3
- D. 160 cm^2



4) Evaluate the expression: $\{[(9 + 3) \times 2] - 4\} \div 5$

Record your answer in the space provided.

5) Which two points have the same x-coordinate?



A. M and N

B. M and P

C. N and P

D. All three



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TIME

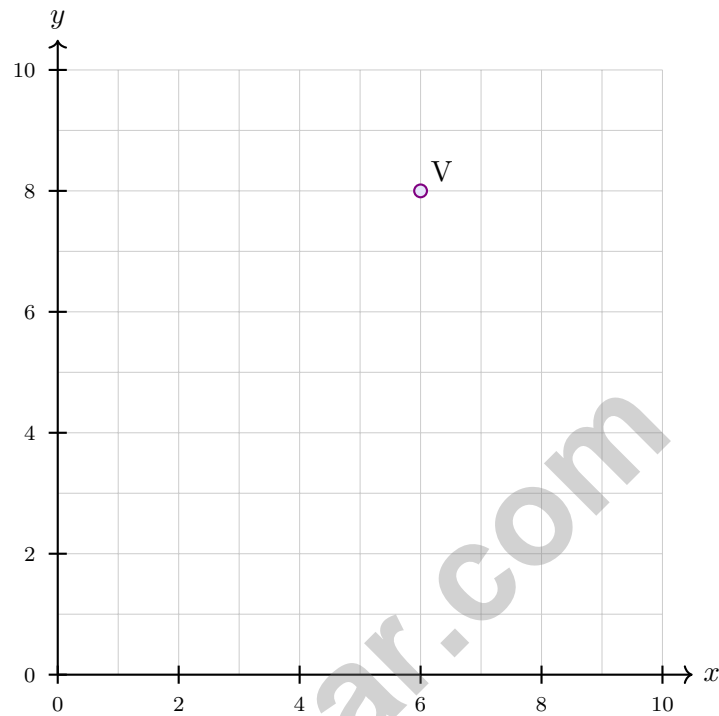
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1) At what coordinates is point V located?



A. (8, 6)

C. (6, 6)

B. (6, 8)

D. (8, 8)

2) Find the product: $30 \times 50 \times 20$.

Record your answer in the space provided.



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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 C is correct.** (5.NBT.A.7) The model shows: $1 \times 4 = 4$ and $0.5 \times 4 = 2$. Total: $4 + 2 = 6$.
- 2) **Choice B is correct.** (5.GM.B.5) The known dimensions make a base area of $7 \times 8 = 56$ square meters. Since $336 \div 56 = 6$, the third dimension is 6 meters.
- 3) **Choice A is correct.** (5.GM.B.5) $V = B \times h = 16 \times 10 = 160 \text{ cm}^3$.
- 4) **The correct answer is 4.** (5.RA.B.3) $9 + 3 = 12$; $12 \times 2 = 24$; $24 - 4 = 20$; $20 \div 5 = 4$.
- 5) **Choice A is correct.** (5.GM.C.6) Both M at (6, 2) and N at (6, 8) have x-coordinate 6, so they share the same x-coordinate.
- 6) **Choice A is correct.** (5.GM.A.1) Perpendicular lines meet at a right angle (90°). The bottom and left sides of a rectangle meet at a right angle.
- 7) **Choice C is correct.** (5.NF.B.6) $\frac{3}{5} \times 25 = \frac{3 \times 25}{5} = \frac{75}{5} = 15$, so 15 students brought lunch from home.
- 8) **Choice B is correct.** (5.NBT.A.4) $52 \times 10 = 520$. Multiply by 10 by appending one zero.
- 9) **Choice C is correct.** (5.NBT.A.4) Dividing by a power of 10 shifts the value to a smaller place. $4,200 \div 100 = 42$ screws per container. This confirms the answer.
- 10) **Choice B is correct.** (5.NF.B.4) Rounding \$12.456 to the nearest cent (hundredth): the thousandths digit is 6. Since $6 \geq 5$, round the hundredths digit up: 5 becomes 6, giving \$12.46.
- 11) **Choice D is correct.** (5.NBT.A.4) Dividing by 1,000 moves the decimal three places left, so 8.1 becomes 0.0081.
- 12) **The correct answer is $\frac{12}{16}$.** (5.NF.B.6) Multiply numerator and denominator by 4: $\frac{3 \times 4}{4 \times 4} = \frac{12}{16}$.
- 13) **Choice A is correct.** (5.NF.B.8) The diagram shows $\frac{1}{4}$ divided into 4 equal parts. This is $\frac{1}{4} \div 4 = \frac{1}{16}$.
- 14) **Choice D is correct.** (5.RA.B.3) Work from the inside out: $3 \times 5 = 15$, then $25 - 15 = 10$, then $10 \times 2 = 20$, and finally $20 + 3 = 23$.
- 15) **Choice A is correct.** (5.RA.B.3) The grouped part ($3 + 2$) equals 5. Multiplying by 4 means there are 4 groups of that 5-unit amount.
- 16) **Choice D is correct.** (5.GM.D.9) Compare the height at age 7 to the height at age 5. The child grew $120 - 108 = 12$ cm, so the total growth was 12 cm.
- 17) **Choice D is correct.** (5.RA.C.5) Total people: $28 + 4 = 32$. Empty seats: $40 - 32 = 8$ seats.
- 18) **Choice D is correct.** (5.NF.B.8) Each whole contains 3 pieces of size $\frac{1}{3}$. With 1 whole, there are $1 \times 3 = 3$ pieces.
- 19) **Choices A, B are correct.** (5.NF.B.6) C is 3; D is $3\frac{3}{4}$.
- 20) **The correct answer is 0.85.** (5.NBT.A.4) Move the decimal point three places left: $850 \rightarrow 0.85$.
- 21) **Choice D is correct.** (5.NF.B.6) LCD = 18. $\frac{5}{9} = \frac{10}{18}$; $\frac{1}{6} = \frac{3}{18}$; $\frac{10}{18} - \frac{3}{18} = \frac{7}{18}$.
- 22) **Choice D is correct.** (5.NF.B.6) D is not in simplest form because $5\frac{3}{12}$ simplifies to $5\frac{1}{4}$. A, B, and C are already in simplest form.
- 23) **Choice B is correct.** (5.GM.C.7) The x-coordinate (40) is units sold, and the y-coordinate (200) is revenue in dollars. So 40 units were sold for \$200.
- 24) **Choice D is correct.** (5.GM.C.7) We need an input that gives an output of 8 after adding 3. Since $5 + 3 = 8$, the value of x is 5.
- 25) **Choice D is correct.** (5.RA.B.3) Because 3 books are removed from each shelf, each shelf now has $15 - 3 = 12$ books. With 8 shelves, the new total is $8 \times 12 = 96$.
- 26) **Choice C is correct.** (5.NBT.A.6) Line up decimal points and subtract place by place. Unknown subtrahend: $15.42 - 8.67 = 6.75$. This confirms the answer.
- 27) **Choice D is correct.** (5.GM.A.2) An equilateral triangle has all angles equal to 60 degrees (acute), so it cannot have an obtuse angle.
- 28) **Choice C is correct.** (5.DS.A.2) There are 3 pieces that are 1 inch long and 2 pieces that are $1\frac{1}{2}$ inches long. The total is $3 \times 1 + 2 \times 1\frac{1}{2} = 3 + 3 = 6$ inches.
- 29) **The correct answer is 13.** (5.GM.A.2) The rectangles are also parallelograms, so add both regions: $8 + 5 = 13$.



Authors' Notes

From a Friend Who Believes in You

Hi, Brilliant Friend!

◇ I have to tell you something important: I am proud of you. You completed 3 full practice tests. That takes time, focus, and heart. Many students never push themselves like that. You did. That tells me everything about your work ethic. ◇

★ **Here's a friendly reminder:** a test does not measure your worth. It measures one slice of your skills on one day. You are much more than a score. The work you put in to grow—that is the real win. ★

Things I Want You to Remember

- **You are capable.** Every test you finished proves it.
- **You are resilient.** You worked through hard problems.
- **You are growing.** Every mistake taught you something new.
- **You are ready.** The skills are inside you.

One last thing: when you sit down on test day, take a deep breath, smile a tiny smile, and remember that someone (me!) believes in you. You've got this.

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 Friend (Always in Your Corner)

Build Skills. Boost Confidence. Excel on the Grade 5 Math Test.

Help your child succeed with confidence! This book includes **3 full-length Grade 5 Math practice tests** aligned to state standards. With a focus on essential skills, problem solving, and test readiness, it's the perfect resource for classroom, home, or on-the-go practice.



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Realistic test format to build familiarity and confidence.



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- ✓ Achieve your best score!



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