

4

COMPLETE

Missouri MAP

Grade

MATH

5

PRACTICE TESTS

Standards-Based Test Prep with
Mixed Review, Word Problems,
and **Full Answer Key**



- ✓ **4 COMPLETE PRACTICE TESTS**
Built to reflect the test format and rigor



- ✓ **COVERS ALL ESSENTIAL TOPICS**
Numbers & Operations, Fractions, Decimals, Geometry, Measurement, Data & Probability, and more



- ✓ **STRENGTHEN SKILLS & CONFIDENCE**
Mixed review, challenging questions, and strategic practice



- ✓ **FULL ANSWER KEY INCLUDED**
Detailed explanations for every question



**BUILD STRONG
MATH SKILLS
& TEST READINESS**



**IMPROVE ACCURACY,
SPEED, AND
PROBLEM SOLVING**



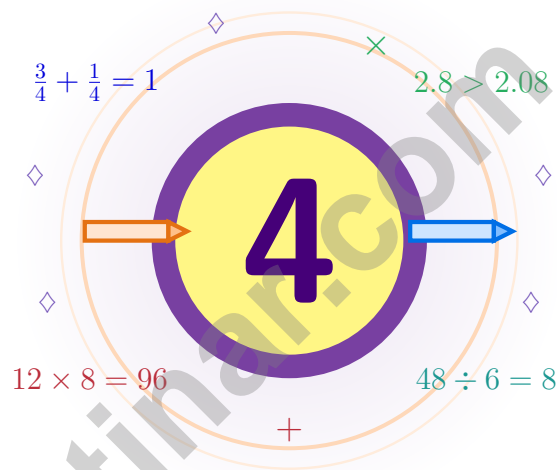
**PERFECT FOR
CLASSROOM,
HOME, OR
SELF-STUDY**



**ALIGNED TO
MISSOURI
STATE STANDARDS
(MAP)**

4 Missouri MAP Grade 5 Math Practice Tests

A four-test mission for curious, careful Grade 5 thinkers



Four full tests, a smart quick review, mission-style strategy pages, and student-tested support that help Grade 5 mathematicians from The Show-Me State build calm, careful, confident habits.

Jay Daie and Reza Nazari



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Missouri, The Four-Test Quest Starts Here

Four full tests, four lessons, one stronger mathematician

To Every Math Brain in Missouri

This book gives you four chances to read closely, solve carefully, and level up your math thinking. Math is like the Gateway Arch – it stands strong because every careful step in the design holds the whole thing up.

You do not need to feel perfect before you begin. You just need to stay curious, use strategies, and learn from every correction. That is how confident mathematicians are built.

Spot Clues

Notice what the problem shows, says, and asks.

Build a Plan

Choose a strategy and work through it step by step.

Bounce Back

Let mistakes show you exactly what to practice next.



A strong mission habit for Missouri: keep your work neat, estimate when it helps, label units carefully, and never let one hard question decide your mood for the whole page.

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Scan me



Use This Book Like a Mission Coach

A four-step routine that turns practice into real improvement

Step 1: Power Up

Start with the quick review.

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

Step 2: Take the Test

Work through one full practice test.

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

Step 3: Decode Mistakes

Check your work honestly.

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

Step 4: Bring the Lesson Forward

Repair, reflect, and retry.

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

A Four-Week Missouri Mission Map

Week	Mission Focus
Week 1	Take Test 1 and show me your starting work.
Week 2	Take Test 2 and aim attention at word problems and clear written steps.
Week 3	Take Test 3 to polish fractions, decimals, and conversions.
Week 4	Take Test 4 with calm, careful, confidently shown work.



Table of Contents

★ Practice Test 1	_____	18
★ Practice Test 2	_____	34
★ Practice Test 3	_____	50
★ Practice Test 4	_____	66
Practice Test Answer Keys	_____	81
Practice Test Answers and Explanations	_____	84

Grade 5 Mathematics Reference Materials

PERIMETER AND AREA

Perimeter of Rectangle $P = 2l + 2w$ or $P = 2(l + w)$

Area of Rectangle $A = l \times w$

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LENGTH

Customary

1 foot (ft) = 12 inches (in.)

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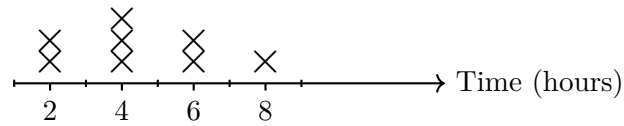
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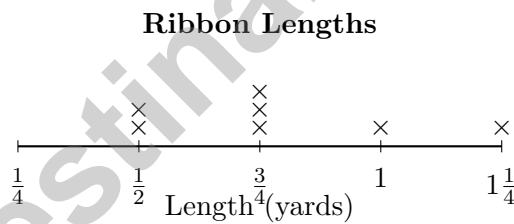


1) The line plot shows time spent on sports (in hours) by students:



Marks show whole hours. What is the total hours and the number of students?

- | | |
|--|--|
| <input type="checkbox"/> A. 30 hours, 8 students | <input type="checkbox"/> C. 34 hours, 8 students |
| <input type="checkbox"/> B. 32 hours, 8 students | <input type="checkbox"/> D. 36 hours, 8 students |
- 2) A baker has $\frac{1}{2}$ pound of butter. She uses an equal amount in each of 4 batches of cookies. How many pounds of butter does each batch use?
- | | |
|---|---|
| <input type="checkbox"/> A. $\frac{1}{2}$ pound | <input type="checkbox"/> C. $\frac{1}{6}$ pound |
| <input type="checkbox"/> B. $\frac{1}{4}$ pound | <input type="checkbox"/> D. $\frac{1}{8}$ pound |
- 3) The line plot shows ribbon lengths measured by students:



What is the total length of the three ribbons that are each $\frac{3}{4}$ yard long?

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



4) A store sells ribbon by the meter. One spool has 5.5 meters. If each customer buys one half meter, or 0.5 meter, how many customers can be served from one spool?

A. 9 customers

C. 12 customers

B. 10 customers

D. 11 customers

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

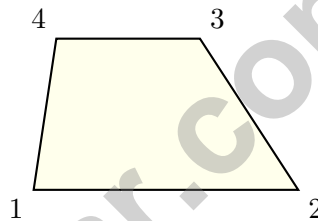
A. 0

C. 1

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

D. 2

6) Look at the shape. How many obtuse angles does it have?



A. 0

C. 2

B. 1

D. 4



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- 1) A scientist plots temperature changes on a graph with time in hours on the x-axis and temperature on the y-axis. Point (6, 72) appears on the graph. This means the temperature was 72 degrees at which time?
- A. 6 degrees at 72 minutes C. At 6 hours
 B. At 72 hours D. 6 minutes past
- 2) A student completes $\frac{1}{5}$ of homework on Monday and $\frac{2}{5}$ on Tuesday. How much is left?
- A. $\frac{1}{5}$ C. $\frac{3}{5}$
 B. $\frac{4}{5}$ D. $\frac{2}{5}$
- 3) Estimate the product 189×6 by rounding 189 to the nearest hundred, then multiply.
- A. 1,000 C. 1,200
 B. 1,100 D. 1,400
- 4) A recipe calls for 6.75 cups of flour. You have already mixed 2.43 cups. How many more cups do you need?
- A. 4.32 cups C. 4.12 cups
 B. 4.42 cups D. 3.92 cups
- 5) What is $8 \div \frac{1}{3}$?
- A. 32 C. 16
 B. 8 D. 24
- 6) A composite museum stand is made from two non-overlapping rectangular prisms. Prism A is 5 inches long, 4 inches wide, and 6 inches tall. Prism B is 6 inches long, 4 inches wide, and 2 inches tall. What is the total volume?
- A. 120 cubic inches C. 48 cubic inches
 B. 168 cubic inches D. 188 cubic inches



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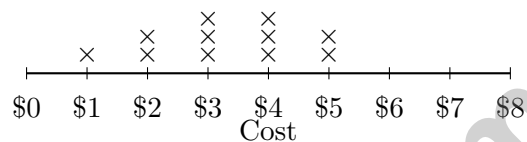


- 1) A quadrilateral has 2 pairs of parallel sides and 4 right angles, but not all sides are equal. Which classification best describes it?

- A. Square C. Trapezoid
 B. Pentagon D. Rectangle

- 2) The line plot displays the cost (in dollars) of school supplies:

Supply Costs



What is the total cost if you buy one supply at each different cost shown?

- A. \$15 C. \$16
 B. \$14 D. \$18
- 3) What is the missing number? $\frac{3}{8} + ? = \frac{5}{8}$
- A. $\frac{1}{2}$ C. $\frac{1}{4}$
 B. $\frac{3}{8}$ D. $\frac{1}{8}$
- 4) Evaluate: $(4 \times 5) + (12 \div 3)$
- A. 12 C. 24
 B. 20 D. 32
- 5) A candy store has 5 pounds of gummy bears. If they package them in bags of $\frac{1}{4}$ pound each, how many bags can they fill?
- A. 15 bags C. 18 bags
 B. 16 bags D. 20 bags



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1) Order these from least to greatest: $\frac{1}{2} \times 10$, 1×10 , $\frac{3}{2} \times 10$.

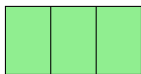
A. $\frac{1}{2} \times 10 < 1 \times 10 < \frac{3}{2} \times 10$

C. $1 \times 10 < \frac{1}{2} \times 10 < \frac{3}{2} \times 10$

B. $\frac{3}{2} \times 10 < 1 \times 10 < \frac{1}{2} \times 10$

D. All three are equal

2) The model shows $\frac{1}{5}$ divided into 3 equal parts. What is the value of each part?



A bar marked $\frac{1}{5}$ split into 3 equal parts

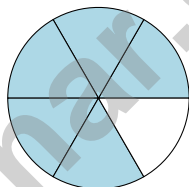
A. $\frac{1}{15}$

C. $\frac{3}{5}$

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

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

3) Circle divided into 6 parts, 5 shaded (blue). Remove $\frac{1}{6}$.



What is $\frac{5}{6} - \frac{1}{6}$?

A. $\frac{4}{6} = \frac{2}{3}$

C. $\frac{6}{6}$

B. $\frac{5}{6}$

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

4) Aquarium: volume 360 in^3 , base 12 in by 5 in. Height =?

A. 6 in

C. 7 in

B. 1800 in

D. 60 in



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.DS.A.2)** There are $2+3+2+1 = 8$ students. The total time is $(2 \times 2) + (4 \times 3) + (6 \times 2) + (8 \times 1) = 4 + 12 + 12 + 8 = 36$ hours.
- 2) **Choice D is correct.** **(5.NF.B.8)** Divide a unit fraction by a whole number: $\frac{1}{2} \div 4 = \frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$ pound per batch.
- 3) **Choice B is correct.** **(5.DS.A.2)** There are 3 X marks above $\frac{3}{4}$ yard. $\frac{3}{4} + \frac{3}{4} + \frac{3}{4} = \frac{9}{4} = 2\frac{1}{4}$ yards.
- 4) **Choice D is correct.** **(5.NBT.A.7)** Each meter has two half-meter pieces. So 5.5 meters has $5.5 \times 2 = 11$ half-meter pieces, enough for 11 customers.
- 5) **Choice B is correct.** **(5.NF.B.4)** $\frac{4}{9}$ is close to $\frac{1}{2}$, and $\frac{1}{12}$ is small. The sum is just a little more than $\frac{1}{2}$, so $\frac{1}{2}$ is the best benchmark estimate.
- 6) **Choice C is correct.** **(5.GM.A.1)** The two top angles, angles 3 and 4, are wider than right angles, so they are obtuse. The two bottom angles are smaller than right angles.
- 7) **Choice A is correct.** **(5.GM.C.7)** Each y is double x , showing the doubling relationship.
- 8) **Choice D is correct.** **(5.NBT.A.4)** 20×5 makes 100, which ends with exactly 2 zeros. The other choices do not end with exactly 2 zeros.
- 9) **Choice C is correct.** **(5.GM.B.5)** Volume = $20 \times 12 \times 6 = 1440$ cubic inches.
- 10) **Choice B is correct.** **(5.GM.B.5)** The base area is $12 \times 3 = 36$ square centimeters. Since $144 \div 36 = 4$, the height is 4 cm.
- 11) **Choice C is correct.** **(5.GM.C.7)** Point C is at (5, 8). Moving 4 units down subtracts 4 from the y -coordinate: $8 - 4 = 4$. The x -coordinate stays 5. So point D is at (5, 4).
- 12) **Choice C is correct.** **(5.GM.B.5)** Volume = base area \times height = $48 \times 5 = 240$ ft³.
- 13) **Choice C is correct.** **(5.RA.B.3)** Each parenthesis becomes one number: $5 + 3 = 8$ and $7 - 4 = 3$. Then multiply those results: $8 \times 3 = 24$.
- 14) **Choice D is correct.** **(5.RA.B.3)** A dozen means 12. Three dozen cupcakes means 3 groups of 12, represented by 3×12 .
- 15) **Choice B is correct.** **(5.RA.A.1)** Check the table: $3 \times 2 - 1 = 5$, $3 \times 3 - 1 = 8$, and $3 \times 5 - 1 = 14$.
- 16) **Choice A is correct.** **(5.GM.B.5)** The base layer has $5 \times 5 = 25$ square units. Divide the volume by the base area: $150 \div 25 = 6$, so the height is 6 centimeters.
- 17) **Choice B is correct.** **(5.GM.C.7)** The first coordinate, 8, matches the x -axis label: minutes. The second coordinate, 2, matches the y -axis label: miles completed. So the point means miles completed is 2 when minutes is 8.
- 18) **Choice C is correct.** **(5.GM.B.5)** The model shows $\frac{2}{3}$ of the columns and $\frac{1}{4}$ of the rows overlapping, so it represents $\frac{2}{3} \times \frac{1}{4}$.
- 19) **Choice D is correct.** **(5.NF.B.6)** Both shaded regions cover the same length of bar. Multiplying numerator and denominator of $\frac{2}{3}$ by 3 gives $\frac{6}{9}$, so the fractions are equivalent.
- 20) **Choices A, B are correct.** **(5.NF.B.8)** Dividing by a unit fraction counts how many unit-fraction pieces fit. Choices A and B both make 12; C makes 6 and D makes 8.
- 21) **Choice A is correct.** **(5.NF.B.5)** Grid: $5 \times 4 = 20$ cells total. Shaded (1 of 4 rows, 3 of 5 columns): $1 \times 3 = 3$ cells. Answer: $\frac{3}{20}$.
- 22) **The correct answer is 6.78.** **(5.NBT.A.6)** Subtracting with borrowing: $15.05 - 8.27 = 6.78$.
- 23) **Choice B is correct.** **(5.NF.B.6)** Add: $\frac{7}{8} + 3\frac{3}{8} = 3\frac{10}{8} = 4\frac{1}{4}$.
- 24) **The correct answer is $\frac{1}{6} \div 3 = n$.** **(5.NF.B.8)** The one-sixth piece is shared among 3 children, so divide by 3. Accept equivalent division equations; the final value $\frac{1}{18}$ may be included if the equation is shown.
- 25) **Choice D is correct.** **(5.NBT.A.4)** Dividing by 100 moves the decimal 2 places left: $87.6 \rightarrow 8.76 \rightarrow 0.876$.
- 26) **Choice D is correct.** **(5.GM.A.2)** A square is both a rectangle and a rhombus, so it belongs in the intersection.
- 27) **The correct answer is 3645.** **(5.NBT.A.8)** $135 \times 7 = 945$ and $135 \times 20 = 2,700$. Sum: $945 + 2,700 = 3,645$.
- 28) **Choice C is correct.** **(5.NBT.A.4)** Following the pattern, $1.2 \times 1000 = 1200$ (move decimal 3 places right).



Notes From Your Math Architect

Dear Builder of Big Ideas,

◇ Across 4 practice tests, you laid down brick after brick of math skill. The foundation is solid. The walls are strong. The roof is in place. You've built yourself a study sturdy enough to stand any storm test day might bring. ◇

★ **What architects know:** a great building starts with a great plan. You've practiced planning—reading carefully, picking your strategy, and working step by step. That blueprint thinking is what turns hard problems into clear answers. ★

Builder's Inspection Checklist

- **Foundation:** ROCK SOLID! Number sense, fractions, decimals—all in place.
- **Frame:** STRONG! You can break down a problem into clear parts.
- **Walls:** TIGHT! Your work is organized and easy to follow.
- **Roof:** FINISHED! You always answer the question that was asked.

Architect's tip: on test day, build each answer like a small building. Foundation: read the question. Frame: pick the strategy. Walls: do the math. Roof: check the answer. Each piece matters. Each piece is yours.

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 Architect (Built to Last)

4 COMPLETE TESTS. CONFIDENCE. SUCCESS.



Give your child the practice and confidence they need to excel in **Grade 5 Math**. This book includes **4 full-length** practice tests designed to build skills, improve test readiness, and help students reach their full potential.

WHAT'S INSIDE:



4 COMPLETE PRACTICE TESTS

Full-length tests that reflect real test format and rigor.



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