

4 Missouri MAP

GRADE
6
MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs

4

**PRINTED
TESTS**



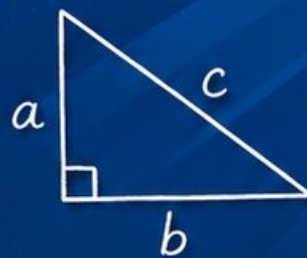
2

**ONLINE
TESTS**



- ✓ Build Confidence
- ✓ Master Key Math Skills
- ✓ Answer Explanations for Every Question
- ✓ Test-Taking Strategies That Work

$$2x + 5 = 21$$
$$x = 8$$



$$\frac{3}{4} + \frac{1}{2} = \frac{5}{4}$$



**USE THESE TWO
ADDITIONAL ONLINE
PRACTICE TESTS**

**FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.**

4 Missouri MAP Grade 6 Math Practice Tests

Standards-Aligned Show-Me Math Proof for Missouri Assessment Program



Four complete 40-question Grade 6 practice rounds for MAP, built for show-me math proof with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Missouri Math Explorer!

Four focused rounds using show-me math proof

This book gives you four full Grade 6 practice tests for MAP. Each round uses river crossings, city blocks, and proof-ready thinking as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your Missouri Practice Promise

Show the reason, not just the answer: model, calculate, and confirm with the question.

Read

Plan

Check

How to Use This Book

A four-session routine for show-me math proof

1. **Preview the skills.** Scan the quick review pages before beginning the first round.
2. **Work in order.** Take one 40-question test at a time in a quiet place.
3. **Mark confidence.** Put a small star beside problems where your plan felt strong.
4. **Correct actively.** Retry missed items before reading the full explanation.
5. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.

Missouri review rhythm: Use each test to gather evidence about strengths and the next skill to repair.



What Is Inside?

Four MAP tests, 160 questions, and a full review path

Part	What You Will Practice
Tests 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 3–4	Skill-building and final stamina rounds with expressions, equations, geometry, data, and problem models.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Show-me math proof means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!
For more practice
& answers

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1) A toy that costs \$24 is bought at 20% off. What is the final price?

- A. \$4.80 C. \$14.40
 B. \$9.60 D. \$19.20

2) Which pair shows numbers with equal absolute values?

- A. -3 and -5 C. 4 and -5
 B. 2 and -2 D. -6 and -8

3) In a group of 200 people, 50 are left-handed. What percent are left-handed?

4) Which number is closest to 0 on a number line?

- A. -2.1 C. 1.3
 B. -0.4 D. 2.8

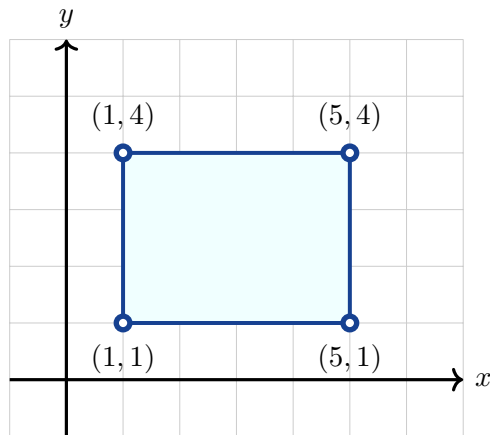
5) Order these values from least to greatest:

$-0.25, 0.4, -0.9, 0.1$

- A. $-0.9, -0.25, 0.1, 0.4$ C. $-0.25, -0.9, 0.1, 0.4$
 B. $0.1, 0.4, -0.25, -0.9$ D. $0.4, 0.1, -0.9, -0.25$



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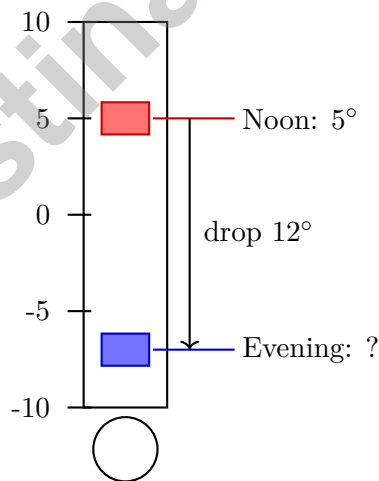


6)

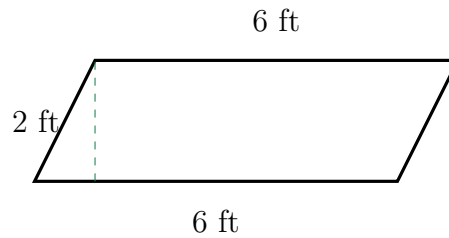
A rectangle has vertices at $(1, 1)$, $(5, 1)$, $(5, 4)$, and $(1, 4)$. What is the perimeter?

- A. 12 units
- B. 18 units
- C. 16 units
- D. 14 units

7) The temperature at noon was 5°C . By evening, it dropped 12°C . Use the thermometer to find the evening temperature.



- A. 7°C
- B. -17°C
- C. 17°C
- D. -7°C



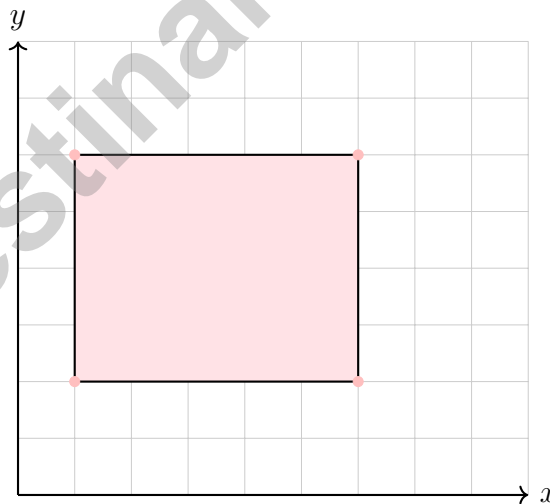
8)

What is the area of the parallelogram shown?

- | | |
|---|---|
| <input type="checkbox"/> A. 8 ft^2 | <input type="checkbox"/> C. 14 ft^2 |
| <input type="checkbox"/> B. 12 ft^2 | <input type="checkbox"/> D. 18 ft^2 |

9) Box X: 5 ft by 2 ft by 3 ft. Box Y: 4 ft by 2 ft by 4 ft. Which box has greater volume and by how much?

- | | |
|---|---|
| <input type="checkbox"/> A. Box X by 1 ft^3 | <input type="checkbox"/> C. Box X by 2 ft^3 |
| <input type="checkbox"/> B. Box Y by 1 ft^3 | <input type="checkbox"/> D. Box Y by 2 ft^3 |



10)

What is the area of this rectangle?

- | | |
|---|---|
| <input type="checkbox"/> A. 16 square units | <input type="checkbox"/> C. 20 square units |
| <input type="checkbox"/> B. 18 square units | <input type="checkbox"/> D. 24 square units |



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1) Write all terms in the expression $8x - 3y + 2 - 5z$.

- A. $8x, -3y, 2, -5z$
 C. 8, 3, 2, 5
 B. $8x, 3y, 2, 5z$
 D. $x, y, 2, z$

2) Which rewrite BEST converts a non-statistical question to a statistical one?

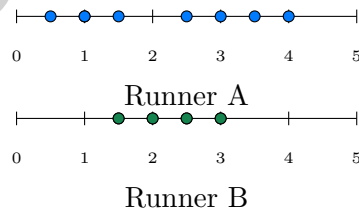
Original: “What is the population of Texas?”

- A. What is the population of Texas today?
 B. How has the population of Texas changed over time?
 C. How many people live in major U.S. cities?
 D. What is the population of the United States?

3) In a dataset, the median is 60 and the IQR is 20. If $Q_1 = 50$, what is Q_3 ?

- A. 40
 B. 60
 C. 70
 D. 80

4) Two runners’ sprint times (seconds) over 8 races. Which runner has more consistent sprint times?

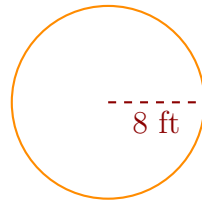


- A. Runner A
 B. Runner B
 C. Both are equally consistent
 D. Cannot determine from dot plots



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Circular Garden



5)

A circular garden has a radius of 8 feet. Using $\pi \approx 3.14$, find the approximate area of the garden.

6) Calculate the mean of the following temperatures: 72°F , 68°F , 75°F , 71°F , 74°F .

7) A student records the number of minutes spent on homework: 24, 31, 28, 35, 29, 32, 26. Arranging in a stem-and-leaf plot, the data spans:

- | | |
|---|--|
| <input type="checkbox"/> A. One stem (20s) | <input type="checkbox"/> C. Three stems |
| <input type="checkbox"/> B. Two stems (20s and 30s) | <input type="checkbox"/> D. Cannot determine |



- 1) A student rewrites a non-statistical question to make it statistical. Which is the BEST rewrite?

Original: "How old is my teacher?"

- A. How old are the teachers at our school?
 B. In what year was my teacher born?
- C. How many teachers are there?
 D. What is the average age of all teachers in the United States?

- 2) Which shows the correct first step when computing $\frac{3}{8} \div \frac{9}{10}$?

A. $\frac{3}{8} \times \frac{9}{10}$
 B. $\frac{3}{8} - \frac{9}{10}$

C. $\frac{8}{3} \times \frac{9}{10}$
 D. $\frac{3}{8} \times \frac{10}{9}$

- 3) What is $8,064 \div 42$?

- A. 192
 B. 200
- C. 204
 D. 212

- 4) What is the value of 0.3×0.3 ?

- A. 0.09
 B. 0.9
- C. 9
 D. 0.6

- 5) What is the prime factorization of 50?

- A. 2×25
 B. 2×5^2
- C. 5×10
 D. 50



6) Order these five numbers from greatest to least:

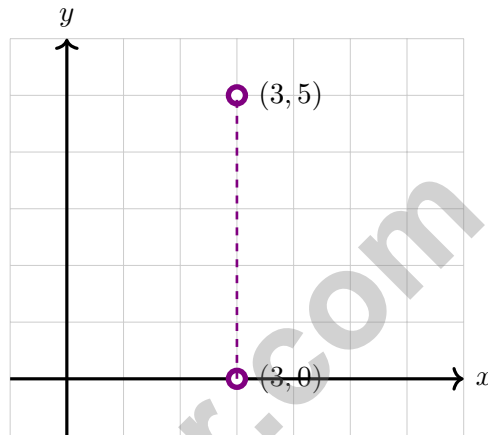
0, -1.2, 1.2, -1.5, 0.5

A. -1.2, -1.5, 0, 0.5, 1.2

C. 1.2, 0.5, -1.2, 0, -1.5

B. 0.5, 1.2, 0, -1.2, -1.5

D. 1.2, 0.5, 0, -1.2, -1.5



7)

Find the distance between $(3, 0)$ and $(3, 5)$.

A. 3 units

C. 5 units

B. 4 units

D. 8 units

8) A hiker starts at elevation 1,200 feet and climbs to 1,850 feet. What is the change in elevation?

A. 650 feet

C. 3,050 feet

B. -650 feet

D. 1,200 feet



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& answers

Missouri MAP Practice Test Answer Keys

How to use this Missouri MAP answer section with a Grade 6 student:

1. check the answer first, then write one quick reason the choice is correct
2. mark questions to try again, especially the skills that feel connected to show-me math proof
3. rework the problem before reading the full explanation, using this reminder:
Show the reason, not just the answer: model, calculate, and confirm with the question.

A calm Missouri correction routine turns every missed item into useful practice. Use each test to gather evidence about strengths and the next skill to repair.



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Missouri Practice Test Answers and Explanations

Review the four printed MAP tests with evidence-minded, steady, and ready to prove more habits.

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** **(6.DSP.A.1)** 20% of \$24 = $0.20 \times 24 = \$4.80$. Final price is $\$24 - \$4.80 = \$19.20$.
- 2) **Choice B is correct.** **(6.NS.C.7)** $|2| = 2$ and $|-2| = 2$. Numbers that are opposites have equal absolute values.
- 3) **The correct answer is 25%.** **(6.RP.A.2)** $\frac{50}{200} = \frac{25}{100} = 25\%$ (divide both by 2).
- 4) **Choice B is correct.** **(6.NS.C.7)** Closest to zero means smallest absolute value. $|-0.4| = 0.4$, which is less than all other absolute values.
- 5) **Choice A is correct.** **(6.NS.C.7)** Negatives come before positives. Among negatives: $-0.9 < -0.25$. Among positives: $0.1 < 0.4$.
- 6) **Choice D is correct.** **(6.GM.A.3)** Length: $|5 - 1| = 4$ units. Width: $|4 - 1| = 3$ units. Perimeter: $2(4 + 3) = 14$ units.
- 7) **Choice D is correct.** **(6.NS.B.3)** Start at 5° and drop (subtract) 12° : $5 + (-12) = -7^\circ$.
- 8) **Choice B is correct.** **(6.GM.A.1)** Area = $6 \times 2 = 12 \text{ ft}^2$.
- 9) **Choice D is correct.** **(6.GM.A.2)** Box X: $V = 5 \times 2 \times 3 = 30 \text{ ft}^3$. Box Y: $V = 4 \times 2 \times 4 = 32 \text{ ft}^3$. Difference: $32 - 30 = 2 \text{ ft}^3$, with Box Y being larger.
- 10) **Choice C is correct.** **(6.GM.A.3)** Length = $6 - 1 = 5$ units; width = $6 - 2 = 4$ units. Area = $5 \times 4 = 20$ square units.
- 11) **The correct answer is 200.** **(6.RP.A.2)** Distance = Rate \times Time = $80 \times 2.5 = 200$ miles.
- 12) **Choice D is correct.** **(6.GM.A.1)** Rectangle: base $10 - 2 = 8$, height $6 - 1 = 5$, area = 40 square units. Triangle: base $13 - 10 = 3$, height $6 - 1 = 5$, area = $\frac{1}{2} \times 3 \times 5 = 7.5$ square units. Total = $40 + 7.5 = 47.5$ square units.
- 13) **Choice D is correct.** **(6.GM.A.1)** A straight line of 6 squares cannot fold into a cube. Valid cube nets require the squares to be arranged in 2D such that when folded in 3D, no faces overlap and all edges meet properly. A straight line does not satisfy this geometric constraint.
- 14) **Choice B is correct.** **(6.GM.A.3)** Points P at $(3, 5)$ and Q at $(-3, 5)$ both have $y = 5$. They share the same horizontal line but are in different quadrants (I and II).
- 15) **Choice C is correct.** **(6.EE1.B.8)** The grade requires $g \geq 80$. Since $79.9 < 80$, it does not meet the requirement for a B.
- 16) **Choice C is correct.** **(6.GM.A.1)** The height is the perpendicular distance from the base to the opposite vertex, shown by the dashed line as 7 cm.
- 17) **Choice C is correct.** **(6.DSP.A.2)** Mean = $\frac{2 + 4 + 6 + 8 + 30}{5} = 10$. Median = 6 (middle value). Since $10 > 6$, the mean is greater than the median. The outlier 30 pulls the mean up.
- 18) **The correct answer is 12.** **(6.NS.B.3)** Multiply: $\frac{3}{4} \text{ pound} \times 16 \text{ oz/pound} = 12$ ounces.
- 19) **Choice D is correct.** **(6.NS.C.8)** Hearts in deck = 13. Total cards = 52. Probability = $\frac{13}{52} = \frac{1}{4}$.
- 20) **Choice D is correct.** **(6.EE1.B.7)** Ratios: $25/5 = 5$ and $40/8 = 5$ dollars per pound. The constant ratio confirms a proportional relationship with equation $c = 5p$. The line passes through the origin.
- 21) **The correct answer is The unit rate is 25 items per hour, and the y-value when $x = 1$ is 25.** **(6.GM.A.3)** A is correct because $50 \div 2 = 25$ items per hour. D is correct because when $x = 1$, $y = 25$. Choice B is false for a proportional relationship, Choice C should be $y = 25x$, and Choice E is false.
- 22) **Choice D is correct.** **(6.EE1.B.6)** Total allocated: $\$3000 + \$2000 + \$1500 + \$1500 = \$8000$. Unallocated: $\$10000 - \$8000 = \$2000 = 20\%$ of $\$10000$.
- 23) **Choice D is correct.** **(6.RP.A.3)** Multiply: 5 inches \times 25 miles/inch = 125 miles.
- 24) **Choice B is correct.** **(6.NS.B.3)** Invert $\frac{4}{5}$ to $\frac{5}{4}$, then multiply: $\frac{2}{3} \times \frac{5}{4} = \frac{10}{12}$. That reduces nicely to $\frac{5}{6}$.
- 25) **Choice B is correct.** **(6.NS.B.2)** $7,280 \div 35 = 208$ remainder 4. Check: $35 \times 208 + 4 = 7,280$.
- 26) **Choice A is correct.** **(6.NS.B.3)** Roughly, $8 \times 4 = 32$ since 7.9 is near 8 and 4.2 is near 4. That ballpark is what estimation is for—save the exact digits for when you need them.



Hi, Math Pilot!

◇ 4 flights done in your math airplane. You have flown through smooth skies and bumpy clouds. You are a real pilot now. ◇

★ **Pilots know:** a good check before takeoff makes a smooth flight. Before each problem, do your check: read, plan, solve, verify. ★

Pilot Skills

- **Pre-Flight:** You read the question carefully.
- **Steering:** You pick the right strategy.
- **Smooth Flight:** You stay calm in long tests.
- **Landing:** You always check your final answer.

Pilot tip: on test day, take off one problem at a time. Trust your training. You earned your wings!

If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Math Pilot

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 4 full-length Math practice tests and 2 online tests to help Grade 6 students build confidence, strengthen skills, and excel on standardized assessments.

Each practice test is carefully crafted to reflect the latest standards and includes a variety of question types, realistic test conditions, and detailed answer explanations.

Perfect for classroom use, homework, test preparation, and extra practice at home.

THIS BOOK INCLUDES:

4 Full-Length
Printed Tests

2 Online Practice
Tests

 Detailed Answer
Explanations

 **MORE PRACTICE.
GREATER RESULTS.**

Give your child the tools to build strong math skills, confidence, and a positive attitude toward learning.

WHAT YOU'LL GAIN



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Deeper Understanding

Reinforce key concepts with clear explanations and meaningful practice.



Test Confidence

Familiarize with test formats and improve accuracy and speed.



Achieve Success

Build confidence and perform your best on test day.

TOPICS COVERED

- ✓ Ratios & Rates
- ✓ Percents
- ✓ The Number System
- ✓ Statistics & Probability
- ✓ Expressions & Equations
- ✓ Data Analysis
- ✓ Geometry
- ✓ Measurement & Conversions
- ✓ Fractions & Decimals
- ✓ And More!



2 ONLINE TESTS

Use these two additional online practice tests for extra review after the printed tests in this book.



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AND LEARNING RESOURCES



PRACTICE
REGULARLY



STAY
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