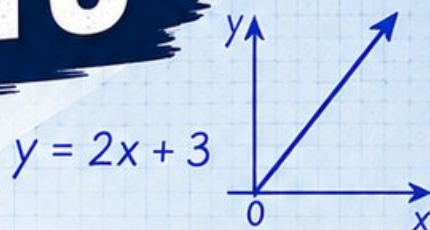


# 3 Missouri MAP

GRADE  
**6**  
MATH

## PRACTICE TESTS

Standards Aligned Problem Solving  
For Comprehensive Assessment Programs



$$\frac{3}{5} + \frac{2}{10} = \frac{8}{10} = \frac{4}{5}$$

$36\% \text{ of } 150 = ?$



**3** | PRINTED  
TESTS



**2** | ONLINE  
TESTS



Build  
Confidence



Master Key  
Math Skills



Answer Explanations  
for Every Question



Test-Taking  
Strategies That Work

# 3 Missouri MAP Grade 6 Math Practice Tests

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



Three 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!

Three focused rounds using show-me math proof

This book gives you three 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 three-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?

Three MAP tests, 120 questions, and a full review path

Part	What You Will Practice
Tests 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Test 3	Final stamina round for expressions, equations, geometry, data, problem models, and mixed review.
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.

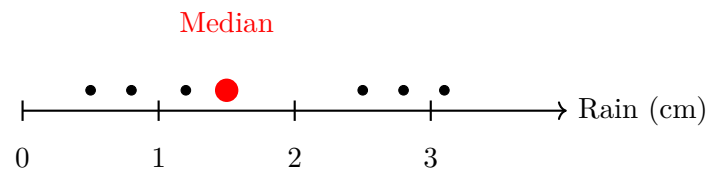


Scan me!  
For more practice  
& answers

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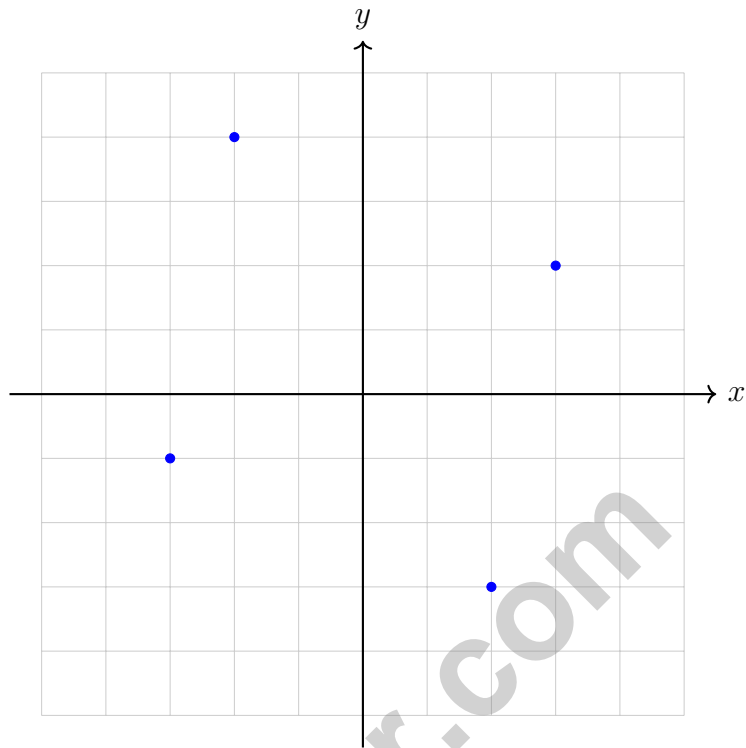
- 1) A dot plot shows rainfall (cm) for 7 days: 0.5, 0.8, 1.2, 1.5, 2.5, 2.8, 3.1. Which represents the median?



- A. 0.8
- B. 1.9
- C. 2.5
- D. 1.5
- 2) A mountain peak is at an elevation of 3500 feet above sea level. A valley floor is at an elevation of  $-800$  feet. What is the difference in elevation?
- A. 2700 feet
- B. 4300 feet
- C. 3500 feet
- D. 800 feet



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For more practice  
& answers



3)

Which point is in Quadrant II?

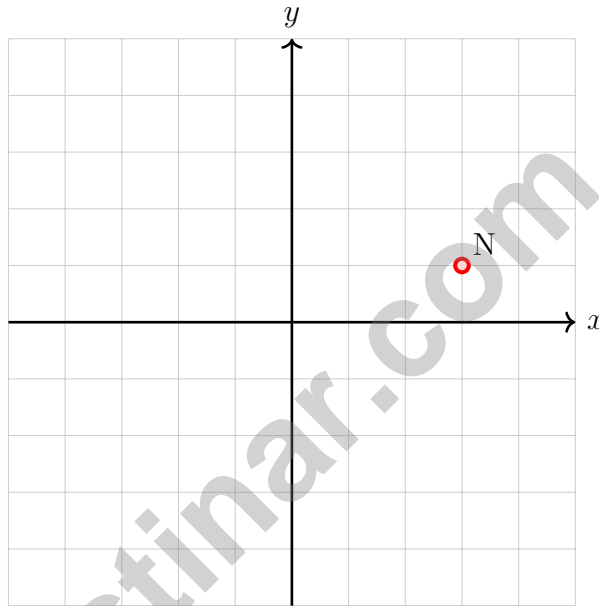
- A. (3, 2)
- B. (-2, 4)
- C. (-3, -1)
- D. (2, -3)

4) A bag contains 3 red marbles, 5 blue marbles, and 2 green marbles. If one marble is drawn at random, what is the probability that it is blue?

- A.  $\frac{1}{10}$
- B.  $\frac{1}{5}$
- C.  $\frac{1}{2}$
- D.  $\frac{5}{8}$



- 1) If a triangle has an area of  $54 \text{ in}^2$  and a height of 9 inches, what is the length of the base?
- A. 6 in                                       C. 27 in  
 B. 48 in                                       D. 12 in



- 2) Point  $N$  at  $(3, 1)$  is translated 2 units to the left and 3 units up. What are the coordinates of  $N'$ ?
- A.  $(1, 4)$                                        C.  $(1, -2)$   
 B.  $(5, -2)$                                        D.  $(5, 4)$



- 3) Find the volume of a rectangular prism with dimensions  $\frac{3}{2}$  cm, 6 cm, and  $\frac{8}{3}$  cm.



- 4) If a circle has an area of approximately  $314 \text{ cm}^2$  and  $\pi \approx 3.14$ , what is the diameter?

- A. 5 cm                                       C. 20 cm  
 B. 10 cm                                       D. 40 cm

- 5) A gym teacher records how many push-ups each student can do. Why is “How many push-ups can a student do?” a statistical question?

- A. Because push-ups require strength.     C. Because the gym teacher asked it.  
 B. Because different students can do     D. Because it is asked in gym class.  
different numbers of push-ups.

- 6) The data set is: 5, 7, 8, 9, 10, 11, 12, 50. Which value is an outlier?

- A. 5     C. 50  
 B. 12     D. 11

- 7) A scientist measures the pH of water samples: 6.8, 7.0, 7.2, 6.9, 7.1, 7.3, 7.0. When ordered: 6.8, 6.9, 7.0, 7.0, 7.1, 7.2, 7.3. The mean is 7.04. What is the MAD?

- A. 0.11     C. 0.5  
 B. 7.04     D. 0.15



Scan me!  
For more practice  
& answers

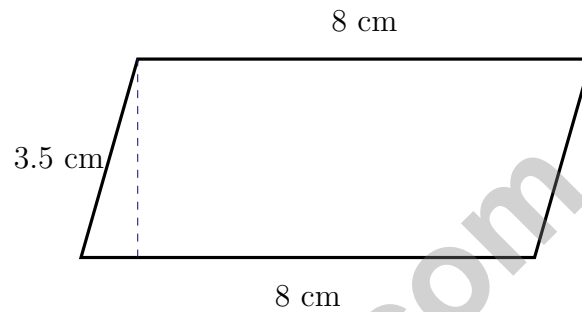
1) A basketball player scores no less than 15 points and no more than 25 points per game. If  $p$  is the points scored, which inequality pair is correct?

A.  $p > 15$  and  $p < 25$

C.  $p < 15$  and  $p > 25$

B.  $p \geq 15$  and  $p \leq 25$

D.  $p \leq 15$  and  $p \geq 25$



2)

A parallelogram has a base of 8 cm and a height of 3.5 cm (shown by dashed lines). What is the area?

A.  $11.5 \text{ cm}^2$

C.  $28 \text{ cm}^2$

B.  $19 \text{ cm}^2$

D.  $56 \text{ cm}^2$

3) A shipping container is 10 m long, 4 m wide, and 3 m high. How much volume does it have?

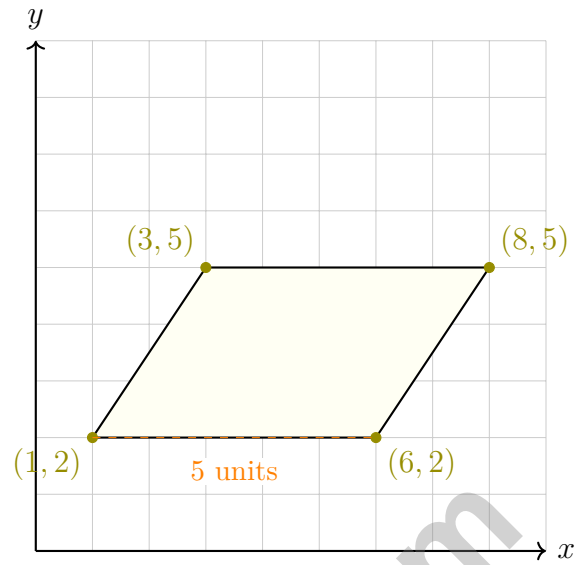
A.  $17 \text{ m}^3$

C.  $60 \text{ m}^3$

B.  $30 \text{ m}^3$

D.  $120 \text{ m}^3$





4)

What is the length of the bottom base of this trapezoid?

- A. 4 units       C. 6 units  
 B. 5 units       D. 7 units



Scan me!  
For more practice  
& 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.**



Scan me!  
For more practice  
& answers

## Missouri Practice Test Answers and Explanations

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

### Practice Test 1 Answers and Explanations

- Choice D is correct.** (6.DSP.A.2) With 7 values, the median is the 4th value when ordered: 0.5, 0.8, 1.2, 1.5, 2.5, 2.8, 3.1. Median is 1.5.
- Choice B is correct.** (6.NS.C.5) The difference in elevation is found by subtracting:  $3500 - (-800) = 3500 + 800 = 4300$  feet.
- Choice B is correct.** (6.GM.A.3) From the graph, the point in Quadrant II (upper left) is  $(-2, 4)$ , which has a negative  $x$ -coordinate and positive  $y$ -coordinate.
- Choice C is correct.** (6.NS.C.8) Total marbles =  $3 + 5 + 2 = 10$ . Blue marbles = 5. Probability =  $\frac{5}{10} = \frac{1}{2}$ .
- Choice D is correct.** (6.GM.A.3) The unit rate is the  $y$ -value when  $x = 1$ . From  $(2, 8)$ :  $8 \div 2 = 4$ . When  $x = 1$ ,  $y = 4$ . Verify with  $(5, 20)$ :  $20 \div 5 = 4$  ✓.
- Choice C is correct.** (6.RP.A.2)  $\frac{15}{50} = \frac{30}{100} = 30\%$  (multiply numerator and denominator by 2).
- Choice C is correct.** (6.DSP.A.1) To find the percent:  $\frac{45}{60} = \frac{3}{4} = 0.75 = 75\%$ .
- Choice D is correct.** (6.RP.A.2) Triple the recipe: orange  $2 \times 3 = 6$  cups, apple  $3 \times 3 = 9$  cups, water  $1 \times 3 = 3$  cups.
- Choice A is correct.** (6.NS.B.3) Divide:  $500 \div 1000 = 0.5$  kg.
- Choice D is correct.** (6.EE1.B.6) To find a percentage discount, multiply the original price by the decimal form of the percentage:  $\$120 \times 0.30 = \$36$  discount.
- Choice A is correct.** (6.EE1.B.7) A relationship is proportional if  $y/x$  is constant. Option A has  $5/1 = 5$ ,  $10/2 = 5$ , and  $15/3 = 5$ , so it is proportional. Option B has  $3/1 = 3$  and  $5/2 = 2.5$ , so the ratio is not constant.
- Choice C is correct.** (6.EE1.B.6) One year has 12 months:  $\$50 \times 12 = \$600$ .
- Choice C is correct.** (6.RP.A.3) Multiply:  $7 \times 2 = 14$  feet.
- The correct answer is 16.** (6.EE1.A.3) Shirts are the 3-part amount. Since  $24 \div 3 = 8$ , each part is 8, and pants are 2 parts:  $2 \times 8 = 16$ .
- Choice D is correct.** (6.NS.B.3) If  $\frac{2}{5}$  lap takes  $\frac{1}{3}$  minute, one lap takes  $\frac{1}{3} \div \frac{2}{5} = \frac{1}{3} \times \frac{5}{2} = \frac{5}{6}$  minute.
- Choice A is correct.** (6.NS.B.2)  $6,292 \div 34 = 185$  remainder 2. Since the remainder is small, it rounds down to 185.
- Choice A is correct.** (6.NS.B.3) Stack the decimals, subtract tenths then ones (borrowing quietly if needed), and you land on 5.6—no drama needed.
- The correct answer is 55 miles per hour.** (6.RP.A.1) Divide miles by hours:  $55 \div 1 = 55$  miles per hour (or  $165 \div 3 = 55$ ).
- Choice B is correct.** (6.NS.B.4) This is a GCF problem. Since  $52 = 2 \times 26$  and  $78 = 3 \times 26$ , the greatest common factor is 26. They can make 26 shelves with 2 fiction books and 3 non-fiction books on each shelf.
- The correct answer is Girls to boys is 10 : 15 = 2 : 3 (Choice A is correct). Boys to total is 15 : 25 = 3 : 5 (Choice B is correct).** (6.RP.A.1) Choice A is correct because girls to boys is 10 : 15, which simplifies to 2 : 3. Choice B is correct because boys to total is 15 : 25, which simplifies to 3 : 5. The other choices either flip the order, swap which group is named first, or use the wrong total (10 girls out of 25 students is 2 : 5, not 1 : 3).
- Choice A is correct.** (6.NS.B.4) Left ribbon:  $3(5 + 7) = 36$ . Right ribbon:  $2(5 + 7) = 24$ . Stack them openly:  $3(5 + 7) + 2(5 + 7) = 60$ . Option B subtracts instead of adds; option C skips half the rectangles; option D wrongly multiplies inside the parentheses.
- Choice D is correct.** (6.NS.C.7) A decrease of \$18 is represented as  $-18$ . The absolute value  $|-18| = 18$  dollars represents the magnitude of the change.
- Choice C is correct.** (6.NS.C.7) Distance from  $-4$  to  $2$  is  $2 - (-4) = 6$ . Distance from  $0$  to  $6$  is also  $6$ .
- Choice A is correct.** (6.NS.C.7) Negative fractions come before positive ones.  $-\frac{3}{5} < -\frac{1}{5}$  and  $\frac{1}{5} < \frac{3}{5}$ .
- Choice C is correct.** (6.GM.A.3) Same  $y$ -coordinate  $(-2)$ :  $|6 - 0| = 6$  units.



**Trail Guide's Final Note**

---

**Hi, Brave Trail-Walker!**

◇ You walked all 3 miles of the practice trail. Smooth paths, steep climbs, narrow passes. Every step taught you something. ◇

★ **Trail guides know:** the most important thing is to keep moving. Slow steps still get you there. You have a steady stride now. ★

**Trail Survey**

- **Route Knowledge:** You know lots of problem types.
- **Steady Pace:** You don't rush. You don't stop.
- **Pack Loaded:** You have all the math tools you need.
- **Confidence:** You trust your training.

**Guide's tip:** on test day, stay on the trail you've walked before. Use the strategies you've practiced. Trust the route. The summit is one steady walk away!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Trail Guide

# PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 3 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:

- 3 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
- ✓ The Number System
- ✓ Expressions & Equations
- ✓ Geometry
- ✓ Fractions & Decimals
- ✓ Percents
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ And More!



## 2 ONLINE TESTS

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



**VISIT [TESTINAR.COM/MATH6](https://www.testinar.com/math6)**  
FOR MORE PRACTICE TESTS  
AND LEARNING RESOURCES



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REGULARLY



STAY  
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