6 Missouri MAP

GRADE 6 MATH

PRACTICE TESTS

Standards-Aligned Steady Southern Problem Solving for Comprehensive Assessment Program

BUILD SKILLS. GAIN CONFIDENCE. SUCCEED!

6 PRINTED TESTS
Realistic practice to build confidence and mastery

2 ONLINE TESTS
Extra practice for continued success

DETAILED ANSWER EXPLANATIONS
Learn with step-by-step solutions

FOCUSED & EFFECTIVE
Target key math skills with purposeful practice

6 PRINTED TESTS +2 ONLINE TESTS
Use these two additional online practice tests for extra review after the printed tests in this book.

PRACTICE
Sharpen skills with targeted practice tests

REVIEW
Understand concepts and strengthen skills

SUCCEED
Build confidence and achieve your best

6 Missouri MAP Grade 6 Math Practice Tests

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

Six 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.

Testinar.com

Jay Daie and Reza Nazari

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Welcome, Missouri Math Explorer!

Eight focused rounds using show-me math proof

This book gives you six 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.

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Read Plan Check

How to Use This Book

A six-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.

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For more practice & answers

What Is Inside?

Eight MAP tests, 320 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 3–5	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 6	Final stamina round for mixed review, neat work, and flexible strategy choices.
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.

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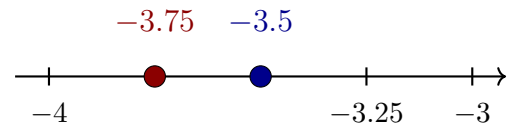
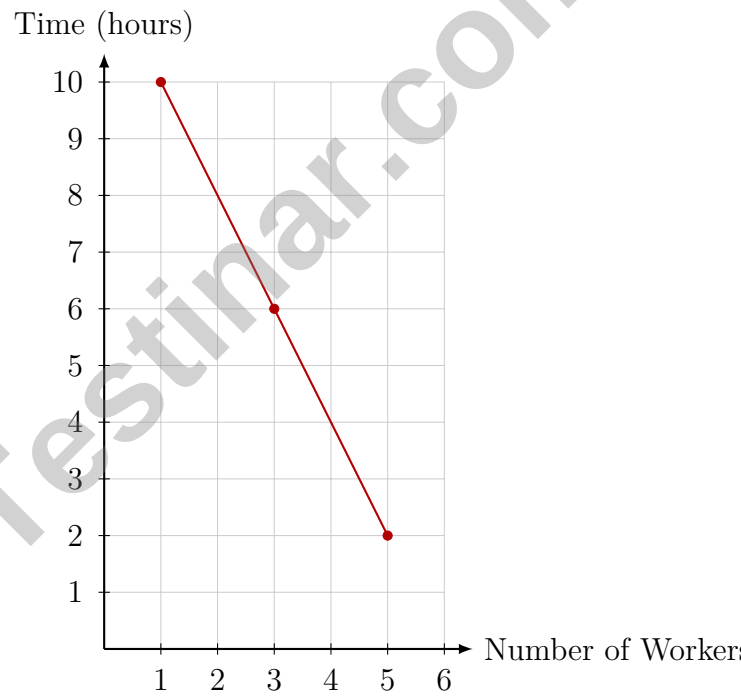
1)



Which point is further left?

- ☐ A. −3.5
- ☐ B. −3.75
- ☐ C. They are the same distance
- ☐ D. Cannot determine

2) The graph below shows the relationship between the number of workers and the time needed to complete a job.



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As the number of workers increases, the time decreases. What is the rate of change?

- ☐ A. 2 hours per worker
- ☐ B. −2 hours per worker
- ☐ C. 0.5 hours per worker
- ☐ D. −0.5 hours per worker

3) A farmer needs to store grain in containers that hold at least 50 pounds each. Which inequality represents the capacity w of a suitable container?

- ☐ A. $w < 50$
- ☐ B. $w \leq 50$
- ☐ C. $w > 50$
- ☐ D. $w \geq 50$

4) Which statement about the number line is FALSE?

- ☐ A. -0.2 is between -0.5 and 0.1
- ☐ B. $-\frac{3}{10}$ is equivalent to -0.3
- ☐ C. The distance from -2 to 3 is 5 units
- ☐ D. -1.5 is less than -1.4

5) A student incorrectly wrote $-3 + (-2) = 5$. What is the correct answer and what error did they make?

- ☐ A. -5; they forgot to make the sum negative
- ☐ B. -1; they forgot to add the absolute values
- ☐ C. 1; they forgot that two negatives sum to a negative
- ☐ D. -5; they added instead of subtracted

6) What is the result of $9 \times (-4)$?

- ☐ A. 36
- ☐ B. -5
- ☐ C. 5
- ☐ D. -36

7) At the end of a game, a player had a score of -15 points. They earned 25 points on their next turn. What is their new score?

- ☐ A. -40 points
- ☐ B. -10 points
- ☐ C. 10 points
- ☐ D. 40 points

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8) Which expression matches "the product of a number i and the sum of 6 and 4"?

☐ A. $(i+6)+4$
☐ B. $(i+6)(4)$
☐ C. $i(6+4)$
☐ D. $i+6+4$

9) Evaluate $4a-3b$ when $a=5$ and $b=2$.

☐ A. 10
☐ B. 26
☐ C. 17
☐ D. 14

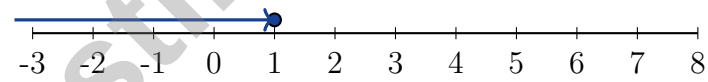
10) Which expression is equivalent to $4(3x+2)$?

☐ A. $12x+2$
☐ B. $7x+6$
☐ C. $3x+8$
☐ D. $12x+8$

11) Which value of x makes $x+8=15$ true?

☐ A. $x=23$
☐ B. $x=15$
☐ C. $x=8$
☐ D. $x=7$

12) What inequality is shown on this number line?



☐ A. $x \leq 1$
☐ B. $x < 1$
☐ C. $x > 1$
☐ D. $x \geq 1$

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1) A scale drawing has a scale of 1 inch = 12 feet. If the actual length of a building is 60 feet, what is its length in the drawing?

☐ A. 4 inches
☐ B. 5 inches
☐ C. 6 inches
☐ D. 7.2 inches

2) Four students calculated the MAD for the same data set: $2, 4, 6, 8$ with mean $= 5$. Who calculated correctly?

- Anna: distances are $3, 1, 1, 3$; MAD $= 8/5 = 1.6$
- Ben: distances are $3, 1, 1, 3$; MAD $= 8/3 = 2.67$
- Carla: distances are $-3, -1, 1, 3$; MAD $= 0/4 = 0$
- Diego: distances are $3, 1, 1, 3$; MAD $= (3 + 1 + 1 + 3)/4 = 2$

☐ A. Anna
☐ B. Ben
☐ C. Carla
☐ D. Diego

3) A snack mix uses raisins and pretzels in the ratio $3 : 5$. If you use 15 cups of raisins, how many cups of pretzels should you use?

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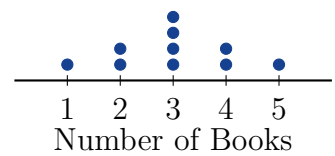
4) The dot plot shows the number of books read by students last month. How many students read exactly 3 books?



☐ A. 2
☐ B. 3
☐ C. 4
☐ D. 5

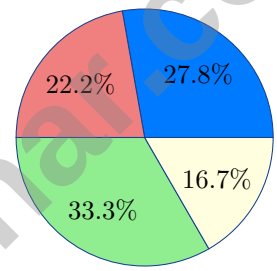
5) A library tracks borrowing patterns for fiction books. The checkout times (days) for 12 books are: $5, 7, 7, 8, 9, 10, 11, 12, 14, 15, 18, 25$. Which measure should the librarian use to decide the typical checkout duration?

- ☐ A. Mean, to include all books
- ☐ B. Range, to see the spread
- ☐ C. Mode, because most books are returned
- ☐ D. Median, because the 25-day outlier is unrepresentative

6) Raw data for number of books read by 8 students: $12, 18, 15, 12, 20, 15, 14, 19$. If you were to create a stem-and-leaf plot, how many leaves would be in stem 1?

- ☐ A. 5
- ☐ B. 6
- ☐ C. 7
- ☐ D. 8

7)



A circle graph displays 360 data points. Identify which section is closest to representing $\frac{1}{3}$ of the total.

- ☐ A. The 27.8% section.
- ☐ B. The 22.2% section.
- ☐ C. The 33.3% section.
- ☐ D. The 16.7% section.

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1)

Age (years)	Height (inches)
8	50
10	55
12	60

The table shows a student's age and height. If the pattern continues, what would be the height at age 14?

☐ A. 62 inches
☐ B. 64 inches
☐ C. 65 inches
☐ D. 70 inches

2) A shirt is on sale for 50% off. Which decimal represents the discount?

☐ A. 0.05
☐ B. 0.5
☐ C. 5.0
☐ D. 50.0

3)

The bar shows yellow and blue sections in a ratio of 3 : 1. If the blue section is 8 units, what is the length of the yellow section?

☐ A. 3 units
☐ B. 8 units
☐ C. 24 units
☐ D. 11 units

4) A coordinate plane shows points representing a proportional relationship between yards and meters. One point is $(3, 2.74)$ and another is $(6, 5.48)$.
Are these points on the same proportional line? Which statement is correct?

☐ A. No, because the x-coordinates are different
☐ B. No, because the y-coordinates are different
☐ C. No, because both coordinates must be whole numbers
☐ D. Yes, because $\frac{2.74}{3} \approx \frac{5.48}{6} \approx 0.91$

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5) A restaurant adds 18% tax to a bill of \$75. What is the total bill including tax?

☐ A. \$85
☐ B. \$88.50
☐ C. \$93
☐ D. \$100

6) Alex saves \$100 from a \$500 income. Jordan saves \$75 from a \$400 income. Who saves a higher percentage of income?

☐ A. Alex at 20%
☐ B. Alex at 25%
☐ C. Jordan at 18.75%
☐ D. Jordan at 25%

7) A drawing shows an object as 6 cm long. The actual object is 3 meters long. What is the scale of the drawing?

☐ A. 1 cm = 0.5 m
☐ B. 1 cm = 5 m
☐ C. 6 cm = 3 m
☐ D. 1 cm = 50 m

8) An underwater cable is installed at an elevation of −250 meters. A nearby cliff rises to an elevation of 180 meters. How much higher is the cliff than the cable?

☐ A. 70 meters
☐ B. 250 meters
☐ C. 180 meters
☐ D. 430 meters

9) For $3, 5, 7, 9, 11, 13, 15$, find the interquartile range.

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

Practice Test 1 Answers and Explanations

1) **Choice B is correct.** 6.NS.C.7 Numbers further left on a number line are less. $-3.75 < -3.5$, so -3.75 is further left.
2) **Choice B is correct.** 6.EEI.C.9 Slope $= \frac{2-10}{5-1} = \frac{-8}{4} = -2$ hours per worker. The negative slope indicates time decreases as workers increase.
3) **Choice D is correct.** 6.EEI.B.8 "At least 50" pounds means the capacity must be 50 or more: $w \geq 50$.
4) **Choice D is correct.** 6.NS.C.7 Statement D is false. -1.5 is actually LESS than -1.4 (further to the left on the number line). The others are all true.
5) **Choice A is correct.** 6.NS.B.3 When adding two negative numbers, add their absolute values: $|-3|+|-2| = 3+2 = 5$, then make the result negative: $-3 + (-2) = -5$.
6) **Choice D is correct.** 6.NS.B.3 Positive times negative is negative: $9 \times (-4) = -36$.
7) **Choice C is correct.** 6.GM.A.3 Adding earned points to negative score: $-15 + 25 = 10$ points.
8) **Choice C is correct.** 6.EEI.A.3 "The sum of 6 and 4" is $(6 + 4)$. "The product of i and" that sum is $i(6 + 4)$. Distractor A misinterprets "product" as "sum".
9) **Choice D is correct.** 6.EEI.A.2 Substitute and compute: $4(5) - 3(2) = 20 - 6 = 14$.
10) **Choice D is correct.** 6.EEI.A.3 Distribute: $4(3x + 2) = 4 \cdot 3x + 4 \cdot 2 = 12x + 8$.
11) **Choice D is correct.** 6.EEI.B.4 Check: $7 + 8 = 15$ is true. Subtract 8 from both sides.
12) **Choice A is correct.** 6.EEI.B.5 A closed (filled) circle at 1 with an arrow pointing left means 1 is included and we want all numbers less than or equal to 1.
13) **Choice C is correct.** 6.GM.A.2 $V = 3.5 \times 2.5 \times 4 = 8.75 \times 4 = 35$ in^3.
14) **The correct answer is 6.** 6.EEI.B.4 Subtract 6 to get $4b = 24$, then divide by 4 to get $b = 6$.
15) **Choice A is correct.** 6.GM.A.3 A rectangle requires opposite corners. If three vertices are $(1, 1)$, $(7, 1)$, and $(7, 5)$, the fourth must be $(1, 5)$.
16) **Choice B is correct.** 6.GM.A.1 Base: $10 - 1 = 9$ units. Height: $6 - 1 = 5$ units. Area $= \frac{1}{2} \times 9 \times 5 = 22.5$ square units.
17) **Choice C is correct.** 6.GM.A.1 Lateral $SA = 2(12)(4) + 2(8)(4) = 96 + 64 = 160$ cm^2.
18) **Choice D is correct.** 6.RP.A.2 Area $= \pi r^2 \approx 3.14 \times 6^2 = 3.14 \times 36 = 113.04$ m^2.
19) **The correct answer is GCF of 16 and 24 is 8; prime factorization of 40 is $2^3 \times 5$..** 6.NS.B.4 Statement A: Factors of 16 are $1, 2, 4, 8, 16$ and factors of 24 are $1, 2, 3, 4, 6, 8, 12, 24$; the GCF is 8 (TRUE). Statement B: LCM of 5 and 7 is 35, not 12 (FALSE). Statement C: $40 = 8 \times 5 = 2^3 \times 5$ (TRUE). Statement D is missing factor 10. Statement E is false because the LCM of 6 and 10 is 30.
20) **Choice C is correct.** 6.DSP.A.2 Range = Maximum − Minimum $= 45 - 5 = 40$.
21) **Choice A is correct.** 6.DSP.A.3 IQR measures spread in the middle 50%. Set X's IQR of 15 is larger than Set Y's IQR of 8, indicating Set X has greater spread in the middle half.
22) **Choice C is correct.** 6.DSP.B.4 Range = Maximum − Minimum $= 12 - 8 = 4$.
23) **Choice C is correct.** 6.EEI.C.9 Range = max − min $= 98 - 55 = 43$ points.
24) **Choice B is correct.** 6.DSP.B.5 When the mean exceeds the median, high outliers are typically present, skewing the distribution right.
25) **Choice D is correct.** 6.DSP.B.4 With 11 data points (odd), the median is at position $(11 + 1)/2 = 6$. So the median value 55 is the 6th value in the ordered list.
26) **Choice A is correct.** 6.NS.A.1 25% of 180 is $0.25 \times 180 = 45$ customers.
27) **Choice C is correct.** 6.NS.B.2 The dots form an upward trend from left to right, indicating a positive correlation: as study hours increase, test scores tend to increase.
28) **The correct answer is 10.** 6.GM.A.1 Using $A = \frac{1}{2}bh$: $80 = \frac{1}{2} \times 16 \times h \Rightarrow h = 10$ cm.

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Author's Note

A Quiet Word From Your Mentor

Hi, Thoughtful Student,

◇ I want to take a moment to tell you something true: you did excellent work. 6 practice tests is a real promise that you kept to yourself. That matters. ◇

⋆ **Mentors notice:** growth is quiet. It doesn't shout. But it shows up in how you handle a problem today vs how you did weeks ago. That growth is your real prize. ⋆

What I See in You

- **Hard Work:** You don't quit when problems are tough.
- **Curiosity:** You wonder why and how.
- **Kindness:** You are patient with yourself.
- **Brave Heart:** You try things that scare you.

Mentor's note: on test day, treat yourself like you would a friend. Be kind. Be patient. Be encouraging. The skills are inside you!

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

Jay Daie

Your Math Mentor

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PRACTICE TODAY. SUCCEED TOMORROW!

This Grade 6 Math Practice Tests book is designed to help students strengthen their math skills, master important concepts, and build the confidence they need to excel on comprehensive assessments.

With 6 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, develop problem-solving abilities, and reach their full potential.

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

6 PRINTED TESTS + 2 ONLINE TESTS

PERFECT FOR:

- Classroom Practice
- Homework & Review
- Independent Learning
- Test Preparation
- Skill Reinforcement
- Building Confidence

BUILD SKILLS. GAIN CONFIDENCE. SUCCEED!

WHAT STUDENTS WILL 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 aligned with standards through meaningful practice.

Test Confidence
Become familiar 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
Extra online practice to reinforce learning and build confidence.

MORE PRACTICE. GREATER RESULTS.
Give your child the tools needed to develop strong math skills, confidence, and a positive attitude toward learning.

6 FULL-LENGTH PRINTED TESTS | 2 ONLINE PRACTICE TESTS | DETAILED ANSWER EXPLANATIONS