

# 9

# Mississippi MAAP

GRADE

# 6

MATH

## PRACTICE TESTS

Standards-Aligned Review  
Mixed Practice & Answer Key



### 9 PRINTED TESTS

Realistic practice to build confidence and mastery



### DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



### FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



### BUILD CONFIDENCE

Strengthen problem solving and test-taking skills



9 PRINTED TESTS  
+2 ONLINE TESTS

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

**PRACTICE TODAY.  
SUCCEED TOMORROW.**



PRACTICE



REVIEW



SUCCEED

# 9 Mississippi MAAP Grade 6 Math Practice Tests

*Standards-Aligned River-State Steady Practice for Mississippi Academic Assessment Program*



Nine complete 40-question Grade 6 practice rounds for MAAP, built for river-state steady practice 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, Mississippi Math Explorer!

Nine focused rounds using river-state steady practice

This book gives you nine full Grade 6 practice tests for MAAP. Each round uses river roads, porch-light focus, and practical math choices as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

## Your Mississippi Practice Promise

Let every clue matter: read the context, write a useful setup, and check the answer.

Read

Plan

Check

## How to Use This Book

A nine-session routine for river-state steady practice

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

**Mississippi review rhythm:** Finish a round, review the explanation trail, and choose one habit for the next test.



## What Is Inside?

Nine MAAP tests, 360 questions, and a full review path

Part	What You Will Practice
Tests 1–3	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 4–6	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Tests 7–9	Final stamina rounds for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

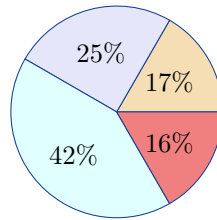
The tests are mixed on purpose. River-state steady practice means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!  
For more practice  
& answers

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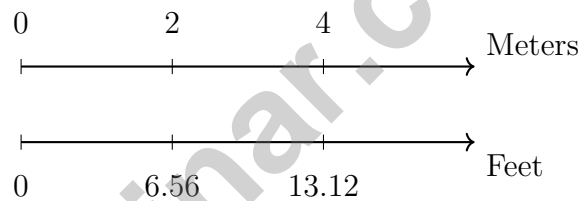


1)

A circle graph displays 500 survey responses. What is the central angle for the 42% section?

- A.  $151.2^\circ$                        C.  $162^\circ$   
 B.  $144^\circ$                          D.  $168^\circ$

2) A double number line shows the relationship between meters and feet.



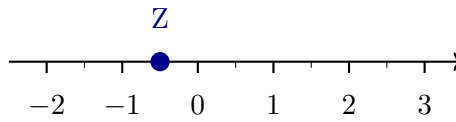
What is the constant of proportionality (feet per meter)?

- A. 2 feet per meter                       C. 6.56 feet per meter  
 B. 3.28 feet per meter                       D. 4 feet per meter
- 3) Estimate the product:  $7.9 \times 4.2$ . Which is closest?

- A. 32                                       C. 28  
 B. 12                                       D. 40



4) The number line below has specific labeled points. What is the value of point Z?



A. -1

C. 0

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

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

5) A company sells 480 products in one month. If 25% of the sales were online, how many products were sold online?

6) A baker needs to convert  $\frac{3}{4}$  of a pound of flour to ounces. How many ounces of flour does the baker need?



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& answers

**Partial Quotients:**  $5,472 \div 24$

$$24 \times 200 = 4,800 \Rightarrow 5,472 - 4,800 = 672$$

$$24 \times 20 = 480 \Rightarrow 672 - 480 = 192$$

$$24 \times 8 = 192 \Rightarrow 192 - 192 = 0$$

---


$$\text{Quotient: } 200 + 20 + 8 = \mathbf{228}$$

7)

What is  $5,472 \div 24$  using partial quotients?

A. 226

C. 230

B. 232

D. 228

8) Find the LCM of 9 and 12.

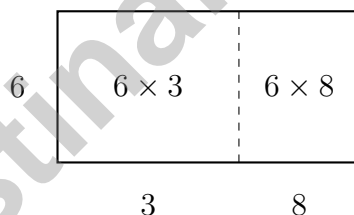
A. 36

C. 21

B. 108

D. 24

9) An area model is shown below. Which factored expression does it represent?



A.  $6(3 + 8) = 66$

C.  $(6 + 3)(6 + 8) = 154$

B.  $3(6 + 8) = 42$

D.  $6(3 \times 8) = 144$

10) On a number line, which integer has an absolute value of 7?

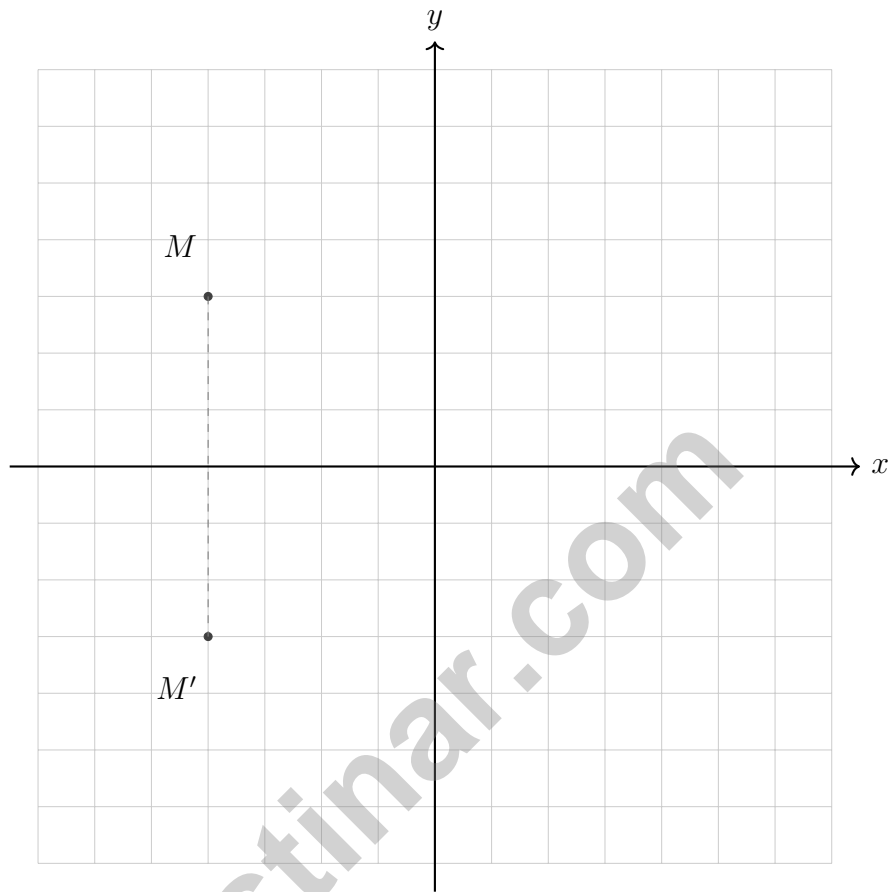
A. Only 7

D. Neither; absolute value is not defined for 7

B. Only  $-7$

C. Both 7 and  $-7$





1)

Points  $M$  and  $M'$  are shown above. Across which axis were these points reflected?

- A. Across the  $x$ -axis
- B. Across the  $y$ -axis
- C. Across both axes
- D. They are not reflections



2) Which expression does NOT equal the others?

A.  $(-5) \times 6$

B.  $6 \times (-5)$

C.  $\frac{-30}{1}$

D.  $(-6) \times (-5)$

3) 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

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

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

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

4) The temperature at 6:00 AM was  $-8^\circ\text{C}$ . By noon, it had risen  $22^\circ\text{C}$ . What was the temperature at noon?

A.  $-30^\circ\text{C}$

B.  $-14^\circ\text{C}$

C.  $14^\circ\text{C}$

D.  $30^\circ\text{C}$

5) A machine produces 420 items in 7 hours. At this rate, how many items will the machine produce in 12 hours?

6) A student says the coefficient of  $x$  in  $x + 5$  is 0 because there is no number in front of  $x$ . Is this correct?

 A. Yes, when no number is written, the coefficient is 0. B. No, when no number is written, the coefficient is 1. C. No, the coefficient is the constant 5. D. Yes, but only if  $x$  appears at the end.

Scan me!  
For more practice  
& answers





**Mississippi MAAP Practice Test Answer Keys**

**How to use this Mississippi MAAP 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 river-state steady practice
3. rework the problem before reading the full explanation, using this reminder: Let every clue matter: read the context, write a useful setup, and check the answer.

**A calm Mississippi correction routine turns every missed item into useful practice. Finish a round, review the explanation trail, and choose one habit for the next test.**



## Mississippi Practice Test Answers and Explanations

Review the nine printed MAAP tests with patient, practical, and ready for the next step habits.

### Practice Test 1 Answers and Explanations

- Choice A is correct.** **(6.NS.1)**  $42\%$  of  $360^\circ$  is  $0.42 \times 360^\circ = 151.2^\circ$ .
- Choice B is correct.** **(6.EE.9b)** From the double number line: 2 meters = 6.56 feet, so  $k = 6.56/2 = 3.28$  feet per meter. This is consistent with 4 meters = 13.12 feet:  $13.12/4 = 3.28$ .
- Choice A is correct.** **(6.NS.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.
- Choice D is correct.** **(6.NS.6c)** Point Z is halfway between  $-1$  and  $0$ , which equals  $-\frac{1}{2}$ .
- The correct answer is 120.** **(6.RP.3c)**  $25\%$  of  $480 = 0.25 \times 480 = 120$  products were sold online.
- The correct answer is 12.** **(6.RP.3d)** Multiply:  $\frac{3}{4}$  pound  $\times$  16 oz/pound = 12 ounces.
- Choice D is correct.** **(6.NS.2)** Using partial quotients:  $200 + 20 + 8 = 228$ . Verify:  $24 \times 228 = 5,472$ .
- Choice A is correct.** **(6.NS.4)** Multiples of 9: 9, 18, 27, 36, 45, ... Multiples of 12: 12, 24, 36, 48, ... The least common multiple is 36.
- Choice A is correct.** **(6.NS.4)** The rectangle shows a common factor of 6 with addends 3 and 8. The area is  $6 \times 3 + 6 \times 8 = 18 + 48 = 66 = 6(3 + 8)$ . Choice A is correct.
- Choice C is correct.** **(6.NS.5)** Absolute value is the distance from zero. Both 7 and  $-7$  are 7 units away from zero, so  $|7| = |-7| = 7$ .
- Choice C is correct.** **(6.NS.7c)** Computing:  $|-11| = 11$ ,  $|-7| = 7$ ,  $|4| = 4$ ,  $|-9| = 9$ . The smallest is 4.
- The correct answer is 800.** **(6.NS.7d)** Total spent:  $50\% + 20\% + 10\% = 80\%$  of  $\$4000 = \$3200$ . Remaining:  $\$4000 - \$3200 = \$800$ .
- Choice B is correct.** **(6.NS.8)** Length:  $|6 - 1| = 5$  units. Width:  $|5 - 2| = 3$  units. Perimeter:  $2(5 + 3) = 16$  units.
- Choice B is correct.** **(6.NS.9)**  $6 - (-5) + (-3) = 6 + 5 - 3 = 11 - 3 = 8$ .
- Choice D is correct.** **(6.EE.3)** Combine like terms:  $(10 - 2 - 1)x = 7x$ .
- Choice D is correct.** **(6.EE.8)** “At least \$8” is  $c \geq 8$ . “Less than \$12” is  $c < 12$ .
- Choice D is correct.** **(6.EE.8)** “At most” means “less than or equal to,” so the inequality is  $T \leq 32$ .
- Choice C is correct.** **(6.G.1)** Area =  $7 \times 3 = 21$  ft<sup>2</sup>.
- Choice C is correct.** **(6.G.3)** Length =  $6 - 1 = 5$  units; width =  $6 - 2 = 4$  units. Area =  $5 \times 4 = 20$  square units.
- Choice A is correct.** **(6.NS.8)** Reflection over the  $y$ -axis negates the  $x$ -coordinate:  $(-2, -2) \rightarrow (2, -2)$ .
- The correct answer is B and C are consistent.** **(6.RP.3)** B:  $3 \times 5 = 15$  km (correct). C:  $4 \times 5 = 20$  km (correct). A:  $2 \times 5 = 10$  km, not 8 (incorrect). D:  $5 \times 5 = 25$  km, not 30 (incorrect). E:  $6 \times 5 = 30$  km, not 35 (incorrect).
- Choice B is correct.** **(6.SP.2)** Student 2’s question asks about many sixth graders (variability expected), requiring data collection. Students 1 and 3 ask about one person’s single preference, which have fixed answers.
- Choice C is correct.** **(6.SP.5c)** Distances from mean 18.8:  $|15 - 18.8| = 3.8$ ,  $|18 - 18.8| = 0.8$ ,  $|19 - 18.8| = 0.2$ ,  $|20 - 18.8| = 1.2$ ,  $|22 - 18.8| = 3.2$ . Sum = 9.2. MAD =  $9.2/5 = 1.84$ .
- Choice D is correct.** **(6.SP.4)** The mode is the value with the highest frequency. The frequency 7 for 1.5 inches is the largest, so 1.5 inches is the mode.
- Choice D is correct.** **(6.RP.3)** Each section is 25% of the whole.  $25\%$  of  $200 = 0.25 \times 200 = 50$  students per section.
- Choice D is correct.** **(6.NS.8)** The point  $(-4, -2)$  has both negative coordinates, placing it in Quadrant III (lower left), not Quadrant II. Quadrant II requires a negative  $x$  and positive  $y$ .
- Choice A is correct.** **(6.NS.7d)**  $-3 < -2.5 < -2$  on the number line.
- The correct answer is  $3\frac{1}{2}$ .** **(6.NS.1)** First change  $1\frac{3}{4}$  to  $\frac{7}{4}$ , then divide by  $\frac{1}{2}$  by multiplying by 2:  $\frac{7}{4} \times 2 = \frac{14}{4} = 3\frac{1}{2}$ .



**A Note From Your Math Friend**

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**Hi, Math Star!**

◇ Wow! You finished 9 full practice tests. That is a LOT of math problems. You worked hard, and your brain got stronger every time. ◇

★ **Here is a big idea:** mistakes are okay! Every time you got something wrong, you got smarter. Through 9 tests, you learned that trying is the most important thing. ★

**Look What You Did!**

- **Hard Worker:** You did not give up!
- **Smart Thinker:** You used your math tools.
- **Brave Learner:** You tried hard problems.
- **Test Ready:** You feel proud and prepared.

**Big tip for test day:** take your time. Read each problem twice. Show your work. Check your answer. You can do this!

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 Friend

# PRACTICE MORE. ACHIEVE MORE.

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 any test.

With 9 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.

## PERFECT FOR:

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

★ PRACTICE TODAY.  
SUCCEED TOMORROW.

## 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 math concepts aligned with standards.



### Test Confidence

Get familiar with test formats and improve accuracy.



### 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.



9 PRINTED  
PRACTICE TESTS



2 ONLINE  
PRACTICE TESTS



DETAILED ANSWER  
EXPLANATIONS