

5

Mississippi

MAAP

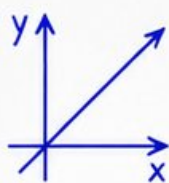
GRADE

7

MATH

PRACTICE TESTS

Standards Aligned
Problem Solving
For Comprehensive
Assessment Programs



$$y = mx + b$$

$$\frac{2}{3} + \frac{1}{6} = \frac{5}{6}$$



$$V = \pi r^2 h$$

**5 PRINTED TESTS****2 ONLINE TESTS**

USE THESE TWO
**ADDITIONAL ONLINE
PRACTICE TESTS**
FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.



Build
Confidence



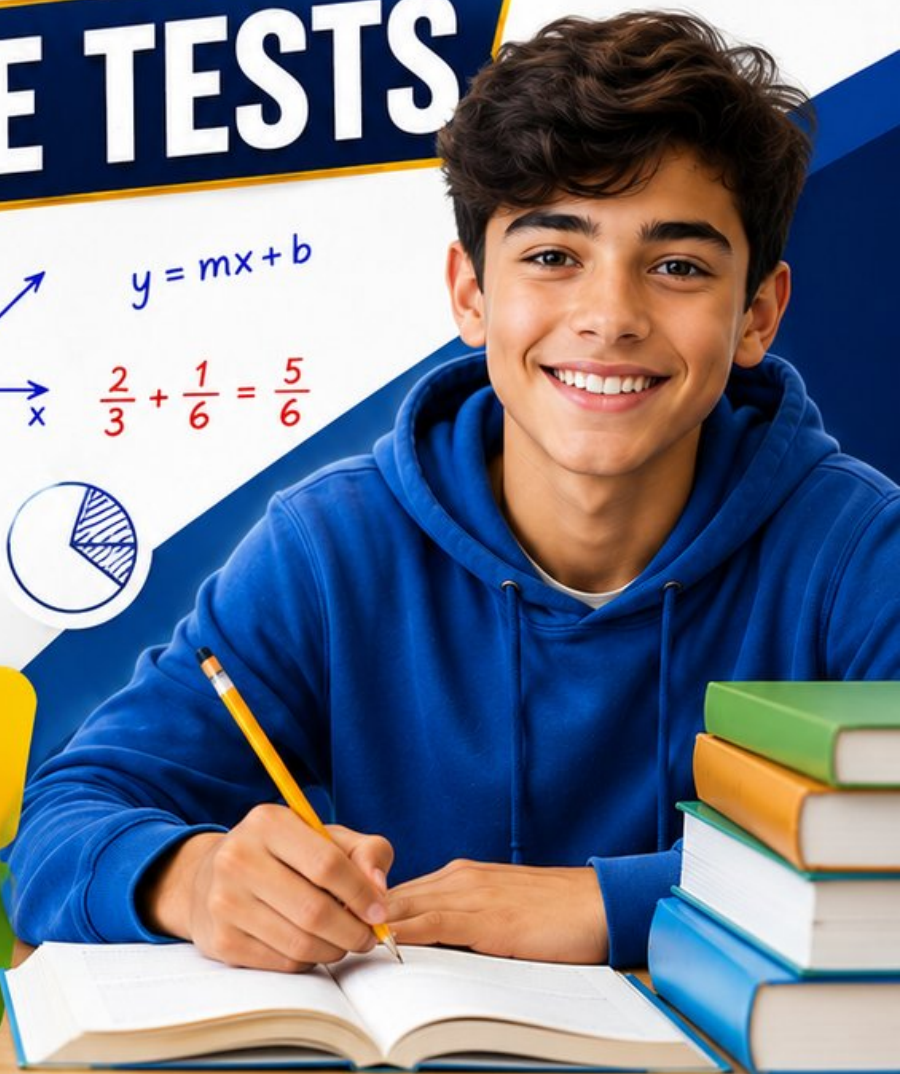
Strengthen
Math Skills



Detailed Answers
& Explanations



Improve Test
Performance



5 Mississippi MAAP Grade 7 Math Practice Tests

Targeted Math Prep with Practice Tests and Complete Answer Support



Five complete 40-question Grade 7 MAAP practice rounds with proportional relationships, percents, rational numbers, expressions, equations, geometry, statistics, probability, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Mississippi Grade 7 Problem Solver!

Five focused rounds for sharper MAAP math thinking

This book gives you five full Grade 7 MAAP math practice tests. Each round is built to help you notice structure, compare quantities, use proportional reasoning, handle rational numbers, and explain your thinking with care.

Your Mississippi Practice Promise

I will read every question carefully, choose a strategy that fits, write enough work to prove my answer, and use corrections as training for the next test.

Read

Model

Verify

How to Use This Book

A five-session plan for confident Grade 7 review

1. **Warm up with the review pages.** Notice the big ideas before starting the tests.
2. **Complete one test at a time.** Treat each 40-question round like a real practice session.
3. **Show your reasoning.** Jot a proportion, equation, diagram, number line, or quick estimate when it helps.
4. **Correct actively.** Rework missed items before reading the explanation.
5. **Choose the next target.** After each test, name one skill and one habit to improve.

Mississippi review rhythm: Work a test, score it, study your misses, then come back ready for the next round with one clear goal.



What Is Inside?

Five MAAP tests, 200 questions, and a focused review path

Part	What You Will Practice
Tests 1–2	Proportional relationships, unit rates, percents, rational-number operations, and careful reading.
Tests 3–5	Expressions, equations, inequalities, scale drawings, geometry, data, probability, and multi-step problem solving.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Grade 7 success means recognizing which idea is being tested even when the next question changes format.

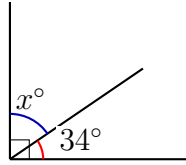


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1)



Two rays form a right angle, and a third ray splits it into complementary angles. One angle measures 34° . What is the measure of angle x ?

☐ A. 56° ☐ C. 90° ☐ B. 34° ☐ D. 124°

2) A scuba diver is at a depth of -45 feet (below sea level). She ascends 15 feet. What is her new depth?

☐ A. -60 feet☐ C. 30 feet☐ B. -30 feet☐ D. 60 feet

3) Miguel owed his friend \$18 (debt = -18). His friend forgave \$10 of the debt. How much does Miguel still owe? (Model his remaining debt.)

☐ A. $-\$28$ ☐ C. \$8☐ B. \$28☐ D. $-\$8$

4) A sports arena model has a scale of $1 : 200$. The actual arena is 200 meters long. How long is the model in centimeters?

☐ A. 20000 cm☐ C. 200 cm☐ B. 1 cm☐ D. 100 cm

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5) A sweater is priced at \$80. A customer uses a coupon for 15% off. What is the sale price?

☐ A. \$65

☐ C. \$64

☐ B. \$76

☐ D. \$68

6) A worker is paid \$18 per hour. What are the earnings for 40 hours?

7) If a sector in a circle graph measures 72° , what percent of the circle does it represent?

☐ A. 10%

☐ C. 20%

☐ B. 15%

☐ D. 25%

8) A student claims: "The relationship is proportional because the y -values keep increasing." Is this correct?

☐ A. Yes, increasing y is the definition

☐ C. Yes, but only if x also increases

☐ B. Cannot determine without seeing the data

☐ D. No; must have constant ratio y/x

9) Which of the following does NOT represent a proportional relationship?

☐ A. $y = 6x$

☐ C. $y = x + 2$

☐ B. $y = 0.5x$

☐ D. $y = \frac{3}{4}x$



10) Evaluate: $\frac{1}{4} - \frac{3}{4}$

☐ A. $\frac{2}{4}$

☐ B. $-\frac{1}{4}$

☐ C. $\frac{1}{2}$

☐ D. $-\frac{1}{2}$

11) A water tank contains 240 gallons. It loses $\frac{1}{6}$ of its contents, then gains 30 gallons. How much water is in the tank now?

☐ A. 200 gallons

☐ B. 230 gallons

☐ C. 190 gallons

☐ D. 220 gallons

12) You can buy 8 pencils for $\frac{1}{2}$ dollar. How much does one pencil cost?

☐ A. \$0.04

☐ B. \$0.16

☐ C. \$0.08

☐ D. \$0.0625

13) What is $\frac{3}{4}$ of 200?

14) If 18% of a number is 36, what is the number?

☐ A. 150

☐ B. 180

☐ C. 200

☐ D. 250

15) A compound interest scenario: Initial investment \$1,000 at 5% annual compound interest. After 2 years, the balance is approximately:

☐ A. \$1,050

☐ B. \$1,100

☐ C. \$1,102.50

☐ D. \$1,105



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1) Which solution strategy is correct for $4x + 6 = 30$?

☐ A. Subtract 6, then divide by 4

☐ C. Multiply by 4, then add 6

☐ B. Divide by 4, then subtract 6

☐ D. Add 6, then divide by 4

2) Simplify $-5x + 3x + 2y - y$, then evaluate when $x = 1$ and $y = 1$.

3) An account balance grows from \$4000 to \$4900 over 5 years using simple interest. What was the annual interest rate?

☐ A. 3%

☐ C. 4.5%

☐ B. 5%

☐ D. 4%

4) A rectangular garden has dimensions $(5y + 10)$ feet and 3 feet. What is the area when $y = 2$?

5) An online store charges a flat \$5.99 for shipping plus \$2.50 per item. Is the total cost proportional to the number of items?

☐ A. Yes, the equation is $C = 2.50n + 5.99$

☐ C. Yes, the constant is 2.50

☐ B. No, because the equation $C = 2.50n + 5.99$ includes both multiplication and addition

☐ D. No, because there is a constant term (\$5.99)



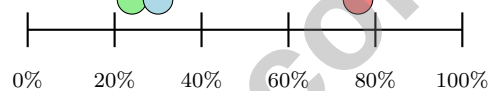
6) An error analysis: A student claims that in the equation $y = \frac{3}{2}x$, the constant of proportionality is $k = \frac{2}{3}$. What is wrong?

- ☐ A. Nothing is wrong; $k = \frac{2}{3}$ is correct. ☐ C. The equation is not proportional.
☐ B. The student forgot to include x . ☐ D. The student flipped the fraction.

7) A square pyramid has a base with side 4 in and slant height 5 in. What is the surface area?

- ☐ A. 16 in^2 ☐ C. 56 in^2
☐ B. 40 in^2 ☐ D. 96 in^2

Estimated Probabilities



8)

Three simulation estimates are plotted on the number line: 0.24 (green), 0.38 (blue), and 0.76 (red). If the true theoretical probability is 0.25, which estimate has the smallest error?

- ☐ A. Green at 0.24 ☐ C. Red at 0.76
☐ B. Blue at 0.38 ☐ D. All three have equal error

9) Which inequality represents “the sum of a number and 2 is not equal to 7”?

- ☐ A. $n + 2 \neq 7$ ☐ C. $n \neq 5$
☐ B. $n + 2 = 7$ ☐ D. $n + 7 \neq 2$



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1) A rectangular prism has length $\frac{1}{2}$ m, width $\frac{1}{3}$ m, and height 2 m. What is the volume?

☐ A. 1 m^3

☐ B. $\frac{2}{3} \text{ m}^3$

☐ C. $\frac{1}{3} \text{ m}^3$

☐ D. $\frac{1}{6} \text{ m}^3$

2) Simplify: $(-2i + 10) + (6i - 8) - (i + 1)$

☐ A. $3i + 1$

☐ B. $4i + 2$

☐ C. $5i - 1$

☐ D. $3i - 1$

3) Solve: $\frac{2x-1}{3} \leq 5$

☐ A. $x \leq 8$

☐ B. $x \leq \frac{16}{2}$

☐ C. $x \leq 7$

☐ D. $x > 8$

4) An account shows a balance of $-\$360$ (a debt). The debt is split equally among 4 people. What is each person's share?

☐ A. Each person owes \$90☐ B. Each person receives \$90☐ C. $(-360) \div 4 = -90$, so each person's debt is \$90☐ D. Cannot divide debt

5) What is $\frac{2}{25}$ as a decimal?

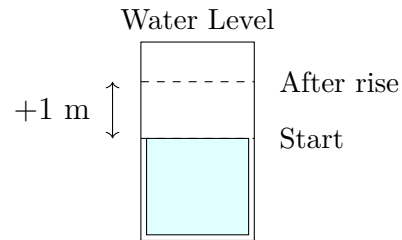
☐ A. 0.08

☐ B. 0.25

☐ C. 0.52

☐ D. 0.92





6)

A water reservoir is at level -3 m (below ground level). After heavy rain, it rises 1 m. What is the new water level?

☐ A. -4 m

☐ C. 2 m

☐ B. -2 m

☐ D. 4 m
7) What is $\sqrt{1}$?
☐ A. 0

☐ C. 2

☐ B. 1

☐ D. undefined
8) Express 6.5×10^{-4} in standard form.
☐ A. 0.65

☐ C. 0.00065

☐ B. 0.0065

☐ D. 6,500
9) Simplify: $z^5 \cdot z^4 \cdot z^2$
☐ A. z^{11}
☐ C. z^9
☐ B. z^{20}
☐ D. z^{40}


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Mississippi MAAP Grade 7 Practice Test Answer Keys**How to use this section with a Grade 7 student:**

1. check the answer first and circle any item that needs another look
2. retry the problem with fresh work before reading the explanation
3. write one short lesson learned from each missed or guessed item

A strong review routine turns every correction into a sharper plan for the next Mississippi MAAP practice test.



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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** (7.G.1-7.G.5) Complementary angles sum to 90° : $x = 90 - 34 = 56^\circ$.
- 2) **Choice B is correct.** (7.NS.1-7.NS.3) Ascending (moving up) is the opposite of depth change. New depth: $-45 - (-15) = -45 + 15 = -30$ feet.
- 3) **Choice D is correct.** (7.NS.1b) Miguel's debt decreases by \$10, so: $-18 + 10 = -8$. He still owes \$8 (represented as -8 in debt model).
- 4) **Choice D is correct.** (7.RP.1-7.RP.3) Model length in meters: $200 \div 200 = 1$ meter = 100 cm.
- 5) **Choice D is correct.** (7.RP.3) Discount = $0.15 \times 80 = \$12$. Sale price = $80 - 12 = \$68$.
- 6) **The correct answer is \$720.** (7.RP.1-7.RP.3) Use $18 \times 40 = 720$ dollars.
- 7) **Choice C is correct.** (7.SP.1-7.SP.4) Angle $\div 360^\circ \times 100 = 72^\circ \div 360^\circ \times 100 = 20\%$.
- 8) **Choice D is correct.** (7.RP.1-7.RP.3) A proportional relationship requires constant ratio $y/x = k$, not just increasing y values.
- 9) **Choice C is correct.** (7.RP.1-7.RP.3) Proportional relationships have the form $y = kx$ (passing through the origin). Option C has a $+2$ term, so it does not pass through $(0, 0)$ and is not proportional.
- 10) **Choice D is correct.** (7.NS.1-7.NS.3) $\frac{1}{4} - \frac{3}{4} = -\frac{2}{4} = -\frac{1}{2}$.
- 11) **Choice B is correct.** (7.NS.1-7.NS.3) Water lost = $\frac{1}{6} \times 240 = 40$ gallons. Remaining: $240 - 40 = 200$ gallons. Gains 30: $200 + 30 = 230$ gallons.
- 12) **Choice D is correct.** (7.RP.1-7.RP.3) Cost per pencil = $\frac{1/2}{8} = \frac{1}{2} \times \frac{1}{8} = \frac{1}{16} = 0.0625$ dollars.
- 13) **The correct answer is 150.** (7.RP.3) Compute $\frac{3}{4} \times 200 = 150$.
- 14) **Choice C is correct.** (7.RP.3) Set up $\frac{18}{100} = \frac{36}{x}$. Cross-multiply: $18x = 3600$, so $x = 200$.
- 15) **Choice C is correct.** (7.RP.3) Year 1: $\$1,000 \times 1.05 = \$1,050$. Year 2: $\$1,050 \times 1.05 = \$1,102.50$. Option A is simple interest for 1 year; B and D are incorrect calculations.
- 16) **The correct answer is \$6000.** (7.RP.3) $I = 5000 \times 0.08 \times 2.5 = \1000 . $A = 5000 + 1000 = \$6000$.
- 17) **The correct answer is 13%.** (7.RP.3) Percent error = $\frac{|2.8 - 3.2|}{3.2} \times 100\% = \frac{0.4}{3.2} \times 100\% = 12.5\%$, rounds to 13%.
- 18) **Choice B is correct.** (7.NS.1-7.NS.3) Sign rule: negative divided by positive always gives negative.
- 19) **Choice C is correct.** (7.NS.2d) Divide $13 \div 20 = 0.65$. The denominator $20 = 2^2 \times 5$ produces a terminating decimal.
- 20) **The correct answer is A, C.** (7.RP.1-7.RP.3) From the table, $k = 14/2 = 7$, so A is true and the equation is $y = 7x$ (C is true). B is false: $k = 7$, not 2.8. D is false: when $x = 10$, $y = 7 \cdot 10 = 70$, not 68.
- 21) **Choice A is correct.** (7.NS.1-7.NS.3) Amount needed: $\frac{5}{6} - \frac{2}{3} = \frac{5}{6} - \frac{4}{6} = \frac{1}{6}$ cup.
- 22) **Choice B is correct.** (7.NS.1-7.NS.3) $13 \times 13 = 169$, so $\sqrt{169} = 13$.
- 23) **Choice B is correct.** (7.NS.1-7.NS.3) $2.5 \times 10^{-3} = 2.5 \times 0.001 = 0.0025$. Move decimal 3 places left.
- 24) **Choice C is correct.** (7.NS.2) A: $(-6) \times 3 = -18 < 0$ (false). B: $(-4) \times (-4) = 16 > 0$ (false). C: Both equal -10 (true). D: $(-1) \times 7 = -7$ and $(-1) \times 6 = -6$; $-7 \not< -6$ (false).
- 25) **Choice A is correct.** (7.EE.1-7.EE.2) Distribute: $2(3a) + 2(4b) - 5a = 6a + 8b - 5a$. Combine a terms: $6a - 5a + 8b = a + 8b$.
- 26) **Choice A is correct.** (7.SP.3) Player A's IQR = $1800 - 1200 = 600$; Player B's IQR = $2000 - 1100 = 900$. A smaller IQR indicates less variability in the middle 50% of scores, so Player A is more consistent.
- 27) **Choice D is correct.** (7.SP.5-7.SP.8) Option D: $0.4 + 0.4 + 0.3 = 1.1 \neq 1$, so it is not valid. All other options sum to 1.
- 28) **Choice D is correct.** (7.RP.3) Total haircut revenue = $25 \times 8 = \$200$. Commission = commission rate $\times$ sales = $0.40 \times 200 = \$80$.
- 29) **Choice B is correct.** (7.G.4-7.G.6) Square: $8 \times 8 = 64 \text{ m}^2$. Triangle: $\frac{1}{2} \times 8 \times 3 = 12 \text{ m}^2$. Total: $64 + 12 = 76 \text{ m}^2$.
- 30) **Choice C is correct.** (7.RP.1-7.RP.3) Set up proportion: $\frac{1}{25} = \frac{4.5}{x}$. Cross multiply: $x = 4.5 \times 25 = 112.5$ miles.
- 31) **Choice D is correct.** (7.RP.3) Interest: $0.15 \times 500 = \$75$ for the two-week period.



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Hi, Persistent Problem Solver!

◇ Some Grade 7 questions ask you to hold several ideas in your mind at once. That can feel hard, and that is exactly why practice matters. ◇

★ **Remember this:** You showed persistence by continuing through the set. That habit is powerful because difficult problems often open after one more good attempt. You practiced across 5 full Grade 7 practice tests, and that repeated effort matters. ★

Persistence Tools

- **Try a Smaller Case:** Use an easier number to see the pattern.
- **Draw It:** Make the situation visible.
- **Restate It:** Say the question in your own words.
- **Check One Step:** Fix the first unclear place.

Grade 7 test-day tip: When stuck, do not restart everything. Find the first step you trust, then rebuild from there.

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

Jay Daie

Your Persistence Coach

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes **5** full-length Math practice tests and **2** online tests to help Grade 7 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:

5 Full-Length Printed Tests

2 Online Practice Tests

 Detailed Answers & 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



Build Confidence

Practice regularly to feel prepared and test-ready.



Strengthen Math Skills

Develop key math concepts and problem solving abilities.



Improve Understanding

Learn with clear explanations and step-by-step solutions.



Test Confidence

Familiarize with test formats and improve accuracy and speed.



Boost Performance

Apply your knowledge and achieve your best score!

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



2 ONLINE TESTS

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



2 EXTRA ONLINE TEST ACCESS CODE IS INSIDE THE BOOK!

Don't lose it—your extra practice and success start here!



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