

9

Mississippi

MAAP

GRADE 7

MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs

Program



9

**PRINTED
TESTS**

+



2

**ONLINE
TESTS**



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



BUILT FOR ACAP
Standards-Aligned



**STRENGTHEN
SKILLS**



**SHARPEN
THINKING**



BE TEST-READY
Improve Performance

9 Mississippi MAAP Grade 7 Math Practice Tests

Standards-Aligned Mississippi Practice for Proportional Reasoning, Expressions, Geometry, Statistics, and Probability



Nine 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!

Nine focused rounds for sharper MAAP math thinking

This book gives you nine 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 nine-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?

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

Part	What You Will Practice
Tests 1–3	Proportional relationships, unit rates, percents, rational-number operations, and careful reading.
Tests 4–6	Expressions, equations, inequalities, scale drawings, geometry, and multi-step problem solving.
Tests 7–9	Statistics, probability, mixed review, stamina, and choosing efficient strategies.
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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& answers

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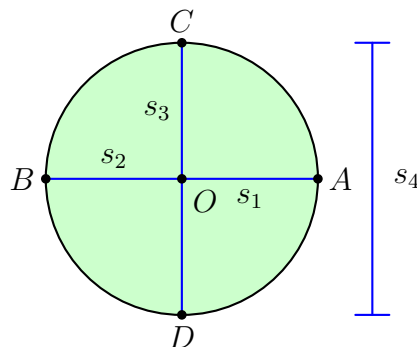
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- 1) Which statement correctly distinguishes between a population and a sample?
- ☐ A. A population is always smaller than a sample
- ☐ B. A sample is a subset of the population selected for study
- ☐ C. A population consists only of volunteers
- ☐ D. A sample must be random, but a population does not need to be
- 2) A test for a new medicine was conducted on 1000 patients. 850 patients showed improvement. What is the experimental probability that a patient will show improvement?
- ☐ A. 0.15
- ☐ B. 0.85
- ☐ C. 1.18
- ☐ D. 1.76
- 3) A window frame is a rectangle with a semicircular window at the top. The rectangular part is 4 feet wide and 6 feet tall. The semicircular window has diameter 4 feet. Using $\pi \approx 3.14$, what is the total window area?
- ☐ A. 24 ft^2
- ☐ B. 30.28 ft^2
- ☐ C. 35.28 ft^2
- ☐ D. 50.24 ft^2
- 4) A rectangular prism has a volume of 360 in^3 . If the length is 10 inches and the width is 6 inches, what is the height?
- ☐ A. 3 in
- ☐ B. 6 in
- ☐ C. 9 in
- ☐ D. 12 in



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- 5) In the circle below, identify which labeled segment is NOT a radius.



- ☐ A. s_1 ☐ C. s_3
☐ B. s_2 ☐ D. s_4
- 6) A young entrepreneur receives a business loan of \$8500 at 8.5% simple interest. If the loan is for 18 months, what is the total amount that must be repaid?
- ☐ A. \$10725 ☐ C. \$10187.50
☐ B. \$9722.50 ☐ D. \$9587.50
- 7) A scale drawing uses $\frac{1}{8}$ inch to represent 1 foot. What is the actual length if the drawing shows 3.5 inches?
- ☐ A. 8 feet ☐ C. 4.375 feet
☐ B. 32 feet ☐ D. 28 feet
- 8) If a bicycle costs \$120 and the sales tax is 8%, what is the tax amount?
- ☐ A. \$8 ☐ C. \$12
☐ B. \$14.40 ☐ D. \$9.60



9) Evaluate $\frac{m}{2} + 6$ when $m = 10$.

☐ A. 8

☐ C. 16

☐ B. 26

☐ D. 11

10) Students sold raffle tickets. The table shows tickets sold and money earned. Which quantity is proportional to the other?

Tickets	10	20	30
Money (\$)	25	50	75

☐ A. Only if they sell more than 40 tickets

☐ C. Yes; $k = 10$

☐ D. Yes; $k = 2.5$

☐ B. No; the amounts are too large

11) Evaluate: $-1\frac{1}{2} - 2\frac{1}{4} + 4\frac{3}{4}$

☐ A. 1

☐ C. $2\frac{1}{4}$

☐ B. $\frac{1}{2}$

☐ D. $-\frac{1}{4}$

12) A scuba diver descends at a rate of -1.5 meters per second. How long does it take to reach a depth of -18 meters from the surface?

☐ A. 9 seconds

☐ C. 16.5 seconds

☐ B. 12 seconds

☐ D. 27 seconds

13) Simplify: $\frac{g^{14}}{g^6}$

☐ A. g^8

☐ C. g^{84}

☐ B. g^{20}

☐ D. g^2



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1) Which step has an error in solving $\frac{1}{2}x + 6 = 10$?

Step	Equation
Start	$\frac{1}{2}x + 6 = 10$
Step 1	$\frac{1}{2}x = 16$
Step 2	$x = 32$

- ☐ A. No error; all correct
 ☐ C. Error in Step 2; should be $x = 8$
☐ B. Error in Step 1; should be $\frac{1}{2}x = 4$
☐ D. Errors in both steps

2) A recipe calls for $\frac{1}{2}$ cup of flour for every $\frac{1}{4}$ cup of sugar. Which ratio represents the proportional relationship?

- ☐ A. 1 : 2
 ☐ C. 4 : 1
☐ B. 1 : 4
 ☐ D. 2 : 1

3) The table shows distance and time. Find the unit rate in miles per hour.

Distance (mi)	$\frac{2}{3}$	$1\frac{1}{3}$	2
Time (hr)	$\frac{1}{5}$	$\frac{2}{5}$	$\frac{3}{5}$

- ☐ A. 1 mph
 ☐ C. $\frac{2}{3}$ mph
☐ B. $\frac{3}{10}$ mph
 ☐ D. $\frac{10}{3}$ mph

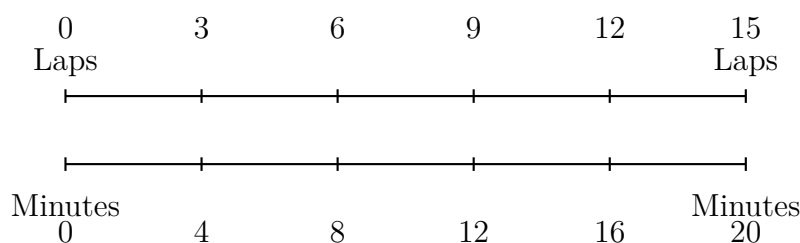
4) Which table represents a proportional relationship?

A:	x	1	3	5
	y	3	7	11
B:	x	2	4	6
	y	6	12	18

- ☐ A. Table A only
 ☐ C. Both tables
☐ B. Table B only
 ☐ D. Neither table



- 5) A double number line relates laps completed to minutes elapsed.



What is the constant of proportionality (laps per minute)?

- ☐ A. 1.2 laps/min
- ☐ B. 0.6 laps/min
- ☐ C. 1.0 laps/min
- ☐ D. 0.75 laps/min

- 6) Factor: $7p + 28$

- ☐ A. $7(p + 4)$
☐ C. $14(p + 2)$
- ☐ B. $7p(1 + 4)$
☐ D. $28(p + 1)$

- 7) A bank charges a \$5 monthly fee plus \$0.10 per check written. If a customer writes 30 checks in a month, what is the total charged in fees?

Test

- 8) A square pyramid has base side 9 m and slant height 12 m. What is the total surface area?

- ☐ A. 81 m²
☐ C. 297 m²
☐ B. 216 m²
☐ D. 378 m²



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1) Simplify: $10p - 5p + 3p - 2p$

☐ A. $6p$

☐ B. $20p$

☐ C. $16p$

☐ D. $4p$

2) Simplify: 7^1

☐ A. 0

☐ B. 1

☐ C. 7

☐ D. 49

3) An ice cream shop charges \$6 for a cone and \$1.50 for each extra topping. If the bill is \$13.50, which equation finds t , the number of extra toppings?

☐ A. $1.50t + 6 = 13.50$

☐ B. $6t + 1.50 = 13.50$

☐ C. $1.50 + 6t = 13.50$

☐ D. $6(t + 1.50) = 13.50$

4) An online game costs \$3 per month plus a \$5 initial fee. If Sarah spent \$20 total, how many months did she play?

☐ A. 3 months

☐ B. 5 months

☐ C. 7 months

☐ D. 9 months

5) A model of a rectangular soccer field is 15 cm long at a scale of 1 cm : 2 m. What is the length of the actual field?

☐ A. 2 m

☐ B. 7.5 m

☐ C. 15 m

☐ D. 30 m

6) A cone is cut by a plane that passes through the apex and the base circle. What is the shape of the cross-section?

☐ A. Circle

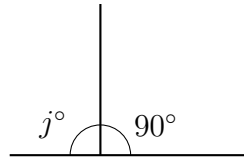
☐ B. Isosceles triangle

☐ C. Ellipse

☐ D. Semicircle



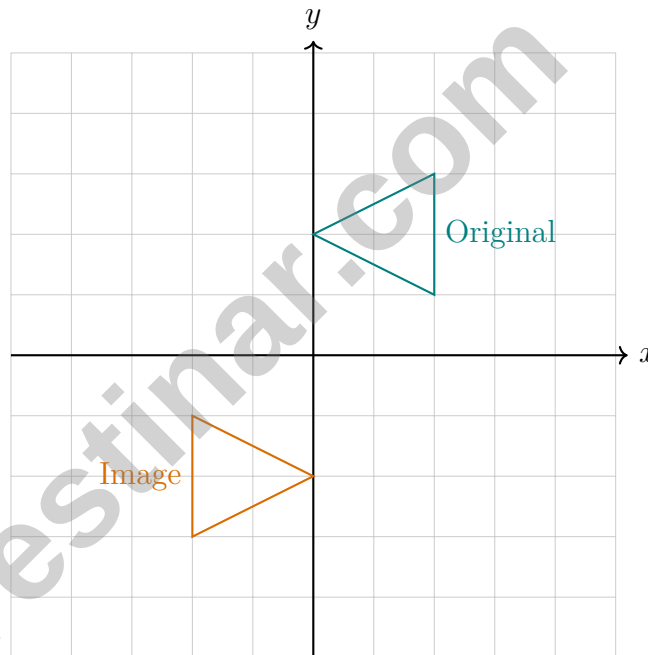
7)



A perpendicular line meets a horizontal line at a point. One angle is 90° . On the opposite side, angle j is formed. What is the measure of angle j ?

☐ A. 45°
☐ C. 135°
☐ B. 90°
☐ D. 180°

8)



The teal triangle is transformed to the orange triangle. What is the transformation?

☐ A. Reflection over the y -axis followed by reflection over the x -axis

☐ C. Reflection over the line $y = -x$
☐ D. Translation by $(-2, -4)$
☐ B. Rotation of 180° about the origin


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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 B is correct.** (7.SP.1-7.SP.4) By definition, a sample is part of a population. A sample is selected from a population to estimate characteristics of the whole population.
- 2) **Choice B is correct.** (7.SP.6) Experimental probability = $\frac{850}{1000} = 0.85$.
- 3) **Choice B is correct.** (7.G.4-7.G.6) Rectangle: $4 \times 6 = 24 \text{ ft}^2$. Semicircle (radius 2): $\frac{1}{2} \times 3.14 \times 4 = 6.28 \text{ ft}^2$. Total: $24 + 6.28 = 30.28 \text{ ft}^2$.
- 4) **Choice B is correct.** (7.G.4-7.G.6) $h = \frac{V}{l \times w} = \frac{360}{10 \times 6} = \frac{360}{60} = 6$ inches.
- 5) **Choice D is correct.** (7.G.4-7.G.6) s_1 , s_2 , and s_3 are radii (from center O to the circle). s_4 is the full top-to-bottom diameter, so it is not a radius.
- 6) **Choice D is correct.** (7.RP.3) STEP 1: Convert months to years: $t = 18 \div 12 = 1.5$ years. STEP 2: $I = 8500 \times 0.085 \times 1.5 = \1087.50 . STEP 3: $A = 8500 + 1087.50 = \$9587.50$.
- 7) **Choice D is correct.** (7.RP.1-7.RP.3) If $\frac{1}{8}$ inch = 1 foot, then 1 inch = 8 feet. So $3.5 \times 8 = 28$ feet.
- 8) **Choice D is correct.** (7.RP.3) The tax is 8% of \$120: $0.08 \times 120 = 9.60$ dollars.
- 9) **Choice D is correct.** (7.EE.1-7.EE.2) Substitute: $\frac{10}{2} + 6 = 5 + 6 = 11$.
- 10) **Choice D is correct.** (7.RP.1-7.RP.3) Each ratio: $25/10 = 2.5$, $50/20 = 2.5$, $75/30 = 2.5$. The constant ratio is \$2.50 per ticket.
- 11) **Choice A is correct.** (7.NS.1-7.NS.3) Common denominator 4: $-\frac{6}{4} - \frac{9}{4} + \frac{19}{4} = \frac{-6-9+19}{4} = \frac{4}{4} = 1$.
- 12) **Choice B is correct.** (7.NS.1-7.NS.3) Time = distance $\div$ rate. The diver descends 18 meters at 1.5 m/s: $18 \div 1.5 = 12$ seconds.
- 13) **Choice A is correct.** (7.EE.1-7.EE.2) Quotient rule: subtract exponents with the same base: $\frac{g^{14}}{g^6} = g^{14-6} = g^8$.
- 14) **Choice C is correct.** (7.EE.4a) Each item costs \$9.99 and shipping is \$5.99 (fixed). Equation: $9.99x + 5.99 = 54.95$.
- 15) **The correct answer is 30.** (7.SP.5-7.SP.8) Each section has theoretical probability $\frac{1}{8}$. Expected frequency: $\frac{1}{8} \times 240 = 30$ times.
- 16) **The correct answer is 35.** (7.RP.1-7.RP.3) Ratio 2 : 5: if juice = 14, then $\frac{2}{5} = \frac{14}{x}$. Cross multiply: $2x = 70$, so $x = 35$ cups water.
- 17) **Choice B is correct.** (7.EE.3-7.EE.4) Divide by 2: $x + 5 = 9$. Subtract 5: $x = 4$.
- 18) **The correct answer is A,B.** (7.G.1-7.G.5) A cannot form a triangle because $5 + 3 = 8 \not> 9$. B cannot form a triangle because $4 + 6 = 10$, not greater than 10. C and D are valid because each pair of side lengths sums to more than the third side.
- 19) **Choice A is correct.** (7.SP.5-7.SP.8) Total tokens = $3 + 4 + 8 = 15$. $P(\text{purple}) = \frac{4}{15}$.
- 20) **Choice D is correct.** (7.RP.1-7.RP.3) From the table, $\frac{1}{2}$ page in $\frac{1}{6}$ hour gives unit rate $\frac{1/2}{1/6} = \frac{1}{2} \times 6 = 3$ pages per hour.
- 21) **Choice D is correct.** (7.RP.1-7.RP.3) The constant is $k = \frac{y}{x} = \frac{8}{2} = 4$.
- 22) **Choice D is correct.** (7.RP.3) Both A and B work, but A is more efficient. Using a proportion: $\frac{52}{100} = \frac{x}{650}$ gives $x = 338$ girls. Method A avoids extra steps.
- 23) **Choice C is correct.** (7.RP.3) Rent = $50\% \times \$1,200 = 0.50 \times 1200 = \600 .
- 24) **Choice C is correct.** (7.NS.1-7.NS.3) If area = 196, then $s^2 = 196$, so $s = \sqrt{196} = 14$.
- 25) **Choice C is correct.** (7.G.1-7.G.5) Map length: $450 \div 15 = 30$ cm.
- 26) **Choice B is correct.** (7.G.4-7.G.6) $A = \pi r^2 = 3.14 \times 2^2 = 3.14 \times 4 = 12.56 \text{ m}^2$.
- 27) **The correct answer is 1600.** (7.SP.1-7.SP.4) Set up the proportion: $\frac{80}{250} = \frac{x}{5000}$. Solve: $x = \frac{80 \times 5000}{250} = 1600$.
- 28) **Choice A is correct.** (7.NS.2) $\frac{3}{4} \times 8 = \frac{3 \times 8}{4} = \frac{24}{4} = 6$.
- 29) **Choice A is correct.** (7.EE.1-7.EE.2) $m + 0.08m = (1 + 0.08)m = 1.08m$. An 8% tax adds 8% to the original price.



Hi, Confident Learner!

◇ This high-stamina book gave you nine substantial Grade 7 practice tests, so you had repeated chances to build accuracy, pacing, and confidence. Grade 7 math can feel big because it brings together rational numbers, expressions, equations, geometry, probability, and data. ◇

★ **Remember this:** But big topics become manageable when you practice one skill at a time. That is what you have been doing with every test in this book. ★

Confidence Builders

- **Know the Goal:** Identify what the question asks.
- **Use Vocabulary:** Math words point to math actions.
- **Show Work:** Give yourself something to check.
- **Celebrate Effort:** Practice is proof that you are moving.

Grade 7 test-day tip: When reviewing, do not only mark wrong answers. Write one sentence about what you learned from each one.

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

Jay Daie

Your Confidence Coach

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes **9** 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:

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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.

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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.

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- ✓ The Number System
- ✓ Expressions & Equations
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- ✓ Data Analysis
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