

7 Mississippi MAAP Grade 7 Math Practice Tests



ONLINE

7 PRINTED TESTS + 2 ONLINE TESTS

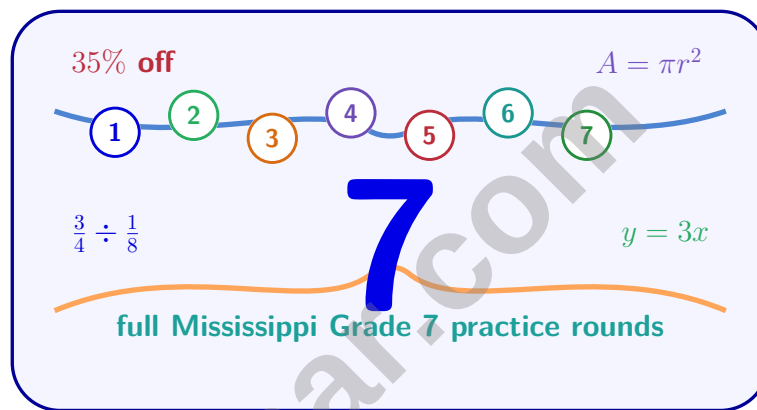


**Standards Aligned Problem Solving
For Comprehensive Assessment Programs**



8 Mississippi MAAP Grade 7 Math Practice Tests

Daily-ready review of Mississippi Grade 7 proportions, rational numbers, algebra, scale drawings, circles, and data analysis



Eight 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!

Eight focused rounds for sharper MAAP math thinking

This book gives you seven 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

An eight-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?

Eight MAAP tests, 280 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 7–8	Statistics, probability, mixed review, stamina, and choosing efficient strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

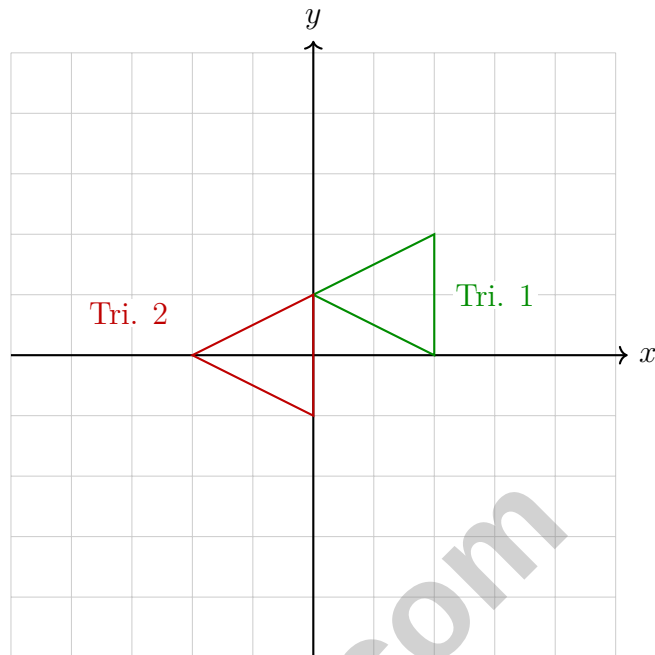
The tests are mixed on purpose. Grade 7 success means recognizing which idea is being tested even when the next question changes format.



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1)

Triangle 1 (green) is transformed to Triangle 2 (red). What single transformation maps Triangle 1 to Triangle 2?

- ☐ A. Translation only
- ☐ B. Rotation of 180° about the origin
- ☐ C. Reflection over the y -axis
- ☐ D. Reflection over the x -axis followed by a translation

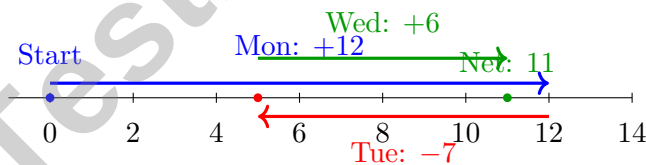
2) What is $-6 \times \frac{2}{3}$?

- ☐ A. -9
- ☐ B. -4
- ☐ C. 4
- ☐ D. 9



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- 3) A hotel charges guests \$120 per night plus a 10% facility fee. For a 4-night stay, what is the total charge?
- ☐ A. \$480 ☐ C. \$528
☐ B. \$504 ☐ D. \$568
- 4) If two triangles have two pairs of congruent angles, what can we conclude?
- ☐ A. The triangles are congruent ☐ C. The triangles are similar
☐ B. The third angles must also be congruent ☐ D. No conclusion can be drawn
- 5) Marcus walks 12 meters east. To return to his starting point, he must walk 12 meters west. Which number represents his westward walk?
- ☐ A. -12 (opposite direction) ☐ C. 0 (no displacement)
☐ B. 12 (same direction as eastward walk) ☐ D. -24 (double the distance in opposite direction)
- 6) A warehouse inventory shows: gained 12 boxes Monday, lost 7 boxes Tuesday, gained 6 boxes Wednesday. What is the net change?



- ☐ A. -25 boxes ☐ C. 11 boxes
☐ B. -11 boxes ☐ D. 25 boxes



7) What is the GCF of 4 and 6?

☐ A. 2

☐ C. 6

☐ B. 4

☐ D. 24

8) A cube has edge length 5 mm. What is its surface area?

☐ A. 25 mm^2

☐ C. 125 mm^2

☐ B. 50 mm^2

☐ D. 150 mm^2

Like Terms Table

x terms	y terms
$3x, 5x, -2x$	$4y, y, -3y$

9)

Which expression is equivalent to the combined like terms shown in the table?

☐ A. $6x + 2y$

☐ C. $-10xy$

☐ B. $8x + 5y$

☐ D. $10x + 2y$

10) Solve: $1.5x - 3 \leq 4.5$

☐ A. $x \leq 5$

☐ C. $x < 5$

☐ B. $x \geq 5$

☐ D. $x \leq 4.5$

11) A bag contains only red and blue marbles in unknown proportions. A simulation draws a marble, records the color, and replaces it. After 200 draws, red appears 132 times and blue appears 68 times. Based on this simulation, what is the estimated probability of drawing a red marble?

☐ A. 0.34

☐ C. 0.66

☐ B. 0.50

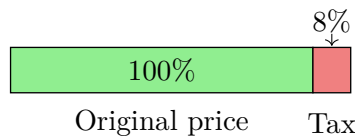
☐ D. 0.68



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- 1) A loan calculator shows that borrowing \$8 000 at 6% interest for 3 years costs \$1 440 in total interest. Approximately how much is paid back in total?

- ☐ A. \$6 560 ☐ C. \$8 000
☐ B. \$7 440 ☐ D. \$9 440



2)

Using the percent bar above, which expression represents the total cost (original price p plus tax)?

- ☐ A. $1.08p$ ☐ C. $p + 0.08$
☐ B. $0.92p$ ☐ D. $p - 0.08p$

- 3) If $x \div (-2) = 6$, find x .

- 4) Write the decimal $0.\overline{4}$ (where 4 repeats) as a fraction.



- 5) A banner is shaped like a rectangle (18 inches $\times$ 10 inches) with a semicircle ($r = 5$ inches) attached to the top. What is the total area? (Use $\pi \approx 3.14$.)
- ☐ A. 139.25 in^2 ☐ C. 205.5 in^2
☐ B. 180 in^2 ☐ D. 219.25 in^2
- 6) A rectangular prism has length 12 cm, width 5 cm, and height 3 cm. Which expression correctly represents the volume?
- ☐ A. $(12 + 5) \times 3$ ☐ C. $2(12 + 5 + 3)$
☐ B. $12 \times 5 \times 3$ ☐ D. $12 + 5 + 3$
- 7) Three given side lengths are 4 cm, 5 cm, and 10 cm. How many distinct triangles can be formed?
- ☐ A. 0 ☐ C. 2
☐ B. 1 ☐ D. Infinitely many
- 8) A bank account starts with a balance of \$250.75. The account loses \$12.50 per month for 5 months. What is the final balance?

- 9) Which segment is NOT a chord?
- ☐ A. A diameter ☐ D. A segment through the center connecting two points on the circle
☐ B. A radius
☐ C. A segment with both endpoints on the circle



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9 in
Rectangle A



13 in
Rectangle B

1)

A student claims the two rectangles are similar because the difference in length is 4 inches and the difference in width is 2 inches. Which statement is correct?

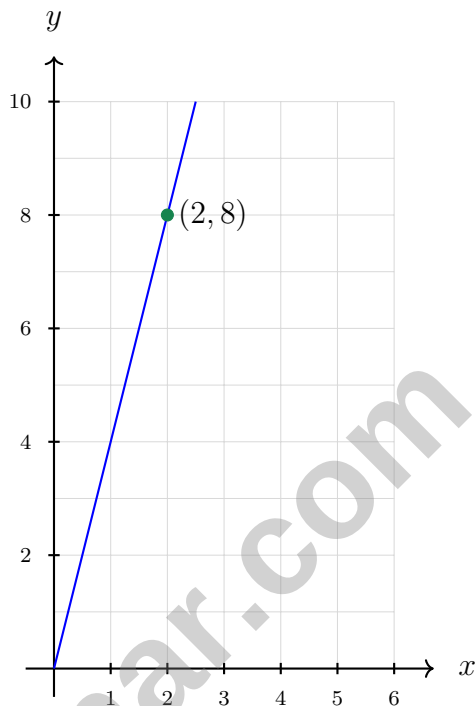
- | | |
|--|---|
| ☐ A. The rectangles are similar; the student's reasoning is correct. | ☐ C. The rectangles are similar; the scale factor is $\frac{4}{3}$. |
| ☐ B. The rectangles are not similar; the student used additive reasoning instead of multiplicative. | ☐ D. The student is correct about the relationship but made a calculation error. |

2) A basketball team scores 96 points. If 33.33% came from three-pointers, approximately how many points came from three-pointers? (Round to the nearest whole number.)

- | | |
|---------------------------------------|---------------------------------------|
| ☐ A. 23 points | ☐ C. 64 points |
| ☐ B. 96 points | ☐ D. 32 points |



- 3) The graph represents a proportional relationship, $y = kx$. One point on the graph is $(2, 8)$. What is the constant of proportionality, k ?



- ☐ A. 2 ☐ C. 6
- ☐ B. 8 ☐ D. 4
- 4) A basketball player's scoring average was 18 points per game. After training, it increased to 27 points per game. What is the percent increase?
- ☐ A. 33.3% ☐ C. 66.7%
- ☐ B. 9% ☐ D. 50%



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Mississippi Academic Assessment Program 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 Academic Assessment Program practice test.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** (7.G.1-7.G.5) Under a 180° rotation, $(0, 1) \rightarrow (0, -1)$, $(2, 0) \rightarrow (-2, 0)$, and $(2, 2) \rightarrow (-2, -2)$. Adjusting for the triangle's position, this matches Triangle 2.
- 2) **Choice B is correct.** (7.NS.2) $-6 \times \frac{2}{3} = \frac{-12}{3} = -4$. A negative times a positive is negative.
- 3) **Choice C is correct.** (7.RP.3) Nightly rate for 4 nights: $120 \times 4 = \$480$. Facility fee = $0.10 \times 480 = \$48$. Total = $480 + 48 = \$528$.
- 4) **Choice C is correct.** (7.G.1-7.G.5) If two angles of one triangle equal two angles of another, the third angles must also be equal (angle sum is always 180°). This AA (Angle-Angle) criterion guarantees similarity: the triangles have the same shape but not necessarily the same size. Similarity does not imply congruence without matching side lengths.
- 5) **Choice A is correct.** (7.NS.1-7.NS.3) If east is positive, then west is negative. Walking 12 meters west is represented by -12 .
- 6) **Choice C is correct.** (7.NS.1b) Net change = $12 + (-7) + 6 = 12 - 7 + 6 = 5 + 6 = 11$ boxes. The warehouse has a net gain of 11 boxes.
- 7) **Choice A is correct.** (7.EE.1-7.EE.2) List factors: 4 has factors 1, 2, 4. 6 has factors 1, 2, 3, 6. The greatest common factor is 2.
- 8) **Choice D is correct.** (7.G.4-7.G.6) $SA = 6s^2 = 6(5)^2 = 6(25) = 150 \text{ mm}^2$.
- 9) **Choice A is correct.** (7.EE.1) x terms: $3x + 5x - 2x = (3 + 5 - 2)x = 6x$. y terms: $4y + y - 3y = (4 + 1 - 3)y = 2y$. Result: $6x + 2y$.
- 10) **Choice A is correct.** (7.EE.4b) Add 3: $1.5x \leq 7.5$. Divide by 1.5: $x \leq 5$.
- 11) **Choice C is correct.** (7.SP.5-7.SP.8) Relative frequency = $\frac{132}{200} = 0.66$.
- 12) **The correct answer is 70.** (7.RP.1-7.RP.3) The unit rate is $140 \div 2 = 70$ miles per hour. This is the car's constant speed.
- 13) **Choice C is correct.** (7.NS.1-7.NS.3) $500 + 250 - 80 = 750 - 80 = 670 \text{ m}$.
- 14) **Choice A is correct.** (7.NS.2d) In a fraction $\frac{a}{b}$, we divide numerator by denominator: $3 \div 5 = 0.6$. Options B reverses the fraction, and C and D show incorrect quotients.
- 15) **The correct answer is 15%.** (7.RP.3) The discount amount is $60 - 51 = 9$ dollars. Percent discount: $\frac{9}{60} = 0.15 = 15\%$.
- 16) **Choice B is correct.** (7.NS.1-7.NS.3) Afternoon temperature = $-5 + 18 = 13^\circ\text{F}$.
- 17) **Choice A is correct.** (7.EE.1-7.EE.2) Distribute the negative: $4x - 3 - 2x - 5 = (4x - 2x) + (-3 - 5) = 2x - 8$.
- 18) **Choice B is correct.** (7.G.1-7.G.5) A plane parallel to the base always produces a cross-section congruent to the base. The cross-section's area is $5 \times 7 = 35 \text{ cm}^2$, independent of the prism's height.
- 19) **Choice B is correct.** (7.G.1-7.G.5) Let the smaller angle be x . Then $x + (x + 26) = 180^\circ$, so $2x = 154^\circ$ and $x = 77^\circ$. Larger angle: $77 + 26 = 103^\circ$.
- 20) **Choice B is correct.** (7.G.4-7.G.6) $C = 2\pi r \Rightarrow 62.8 = 2(3.14)r \Rightarrow 62.8 = 6.28r \Rightarrow r = 10 \text{ in}$.
- 21) **Choice C is correct.** (7.G.4-7.G.6) $V = \pi r^2 h \Rightarrow 301.44 = 3.14 \times r^2 \times 12 \Rightarrow r^2 = 8 \Rightarrow r = 4 \text{ inches}$.
- 22) **The correct answer is A, C.** (7.RP.1-7.RP.3) True: A ($4 \times 6 = 24$ feet) and C ($2 \times 6 = 12$ feet; $2.5 \times 6 = 15$ feet). False: B (area scales by $6^2 = 36$, not 6); D (area: $900 \div 36 = 25 \text{ sq in}$, not 36); E (areas are reduced by $\frac{1}{36}$ on the plan, not $\frac{1}{6}$).
- 23) **Choice B is correct.** (7.SP.1-7.SP.4) Online surveys miss non-internet users and only attract interested respondents who choose to complete the survey, introducing coverage bias and voluntary response bias.
- 24) **Choice C is correct.** (7.SP.5-7.SP.8) Faces showing 1: 2 out of 6. $P(\text{rolling 1}) = \frac{2}{6} = \frac{1}{3}$.
- 25) **Choice C is correct.** (7.SP.5-7.SP.8) By the counting principle: $4 \times 6 \times 3 = 72$ complete meal combinations.
- 26) **The correct answer is \$48.83.** (7.RP.3) Tax = $0.085 \times 45 = \$3.825 \approx \3.83 . Final price = $45 + 3.83 = \$48.83$.
- 27) **Choice A is correct.** (7.NS.1-7.NS.3) $1\frac{1}{2} = \frac{3}{2}$. Then $\frac{3}{2} \div \frac{1}{4} = \frac{3}{2} \times \frac{4}{1} = 6$.
- 28) **Choice B is correct.** (7.NS.1-7.NS.3) Penalty per mistake: $-8 \div 4 = -2$ points per error.



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Hi, Calm Solver!

◇ This broad and demanding book gave you seven strong Grade 7 practice tests, so you had repeated chances to build accuracy, pacing, and confidence. A calm mind can see choices more clearly. That matters in Grade 7, where one problem may have several possible entry points. ◇

★ **Remember this:** You practiced building calm by doing full tests. Each completed page is rehearsal for staying steady when the real test feels serious. ★

Calm-Test Moves

- **Pause:** Give your brain one quiet second.
- **Choose:** Pick the first useful step.
- **Continue:** Do not demand perfection immediately.
- **Check:** Use review time wisely.

Grade 7 test-day tip: If you feel rushed, slow your reading for one sentence. Clear reading saves time.

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

Jay Daie

Your Calm-Test Coach

Practice Today. Succeed Tomorrow!

This book includes **7** 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:

- 7** 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



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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 & Proportions
- ✓ 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!

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