

3

Mississippi

MAAP

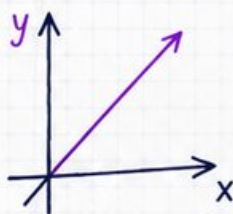
GRADE

7

MATH

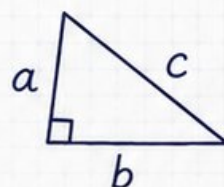
PRACTICE TESTS

- ✓ Standards Aligned
Problem Solving
For Comprehensive
Assessment Programs



$$y = mx + b$$

$$\frac{2}{3}x - \frac{4}{5} = \frac{1}{2}$$



$$3(x - 2) = 2x + 5$$



3 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

3 Mississippi MAAP Grade 7 Math Practice Tests

Standards-Aligned Mississippi Review with Keys and Explanations



Three 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!

Three focused rounds for sharper MAAP math thinking

This book gives you three 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 three-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?

Three MAAP tests, 120 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.
Test 3	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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& answers

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1) Maria's bank account has a balance of \$85.50. She withdraws \$12.75 twice in one week. What is her new balance?

- ☐ A. \$59.00 ☐ C. \$60.00
☐ B. \$72.75 ☐ D. \$97.00

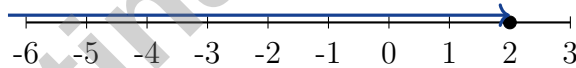
2) Three scientists each estimated a chemical reaction's duration. All estimates are compared to an actual duration of 30 seconds. Which estimate has the largest percent error?

- ☐ A. Estimate of 27 seconds ☐ C. Estimate of 36 seconds
☐ B. Estimate of 32 seconds ☐ D. Estimate of 28 seconds

3) Expand: $(3x + 2) \cdot 5$

- ☐ A. $3x + 10$ ☐ C. $15x + 2$
☐ B. $15x + 10$ ☐ D. $8x + 5$

4) What inequality is represented?



- ☐ A. $x > 2$ ☐ C. $x \geq 2$
☐ B. $x < 2$ ☐ D. $x \leq 2$

5) A soccer team won 75% of their 20 games. How many games did they win?

- ☐ A. 5 ☐ C. 15
☐ B. 12 ☐ D. 18



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6) Maya deposits \$1200 into a savings account with a simple interest rate of 4% per year. How much interest will she earn after 2 years?

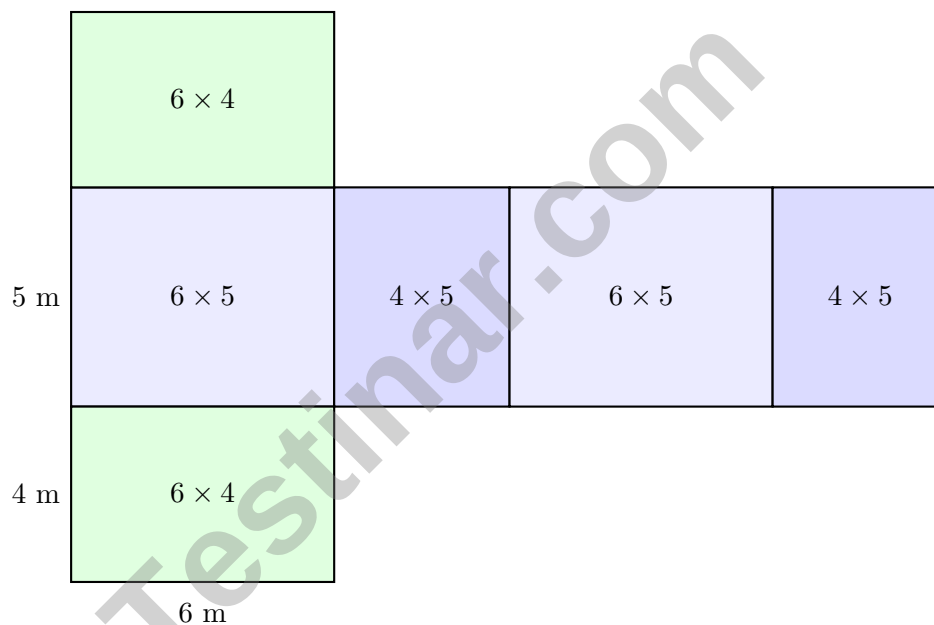
- ☐ A. \$48
☐ B. \$240

- ☐ C. \$144
☐ D. \$96

7) On a number line, you start at 4 and move 11 units left. Where do you land?

- ☐ A. -15
☐ B. 15

- ☐ C. 7
☐ D. -7



8)

A net shows the unfolded faces of a rectangular prism. Based on the labeled dimensions, what is the surface area?

- ☐ A. 148 m^2
☐ B. 160 m^2

- ☐ C. 200 m^2
☐ D. 240 m^2



- 9) A garden plot is 30 meters long. A scale model uses a scale of 1 cm : 3 m. How long is the model plot?
- ☐ A. 1 cm ☐ C. 30 cm
☐ B. 90 cm ☐ D. 10 cm
- 10) An electronics store buys a laptop for \$600 and marks it up by 35%. What is the selling price?
- ☐ A. \$965 ☐ C. \$390
☐ B. \$835 ☐ D. \$810
- 11) What is the coefficient of x in the simplified form of $9x - 4x + 2y$?
- ☐ A. 9 ☐ C. 4
☐ B. 5 ☐ D. 13
- 12) If the area of a rectangle is $18x + 27$ square units and the width is 9 units, what is the length?
- ☐ A. $2x + 3$ ☐ C. $18x$
☐ B. $2x + 27$ ☐ D. $18x + 27$
- 13) To design a simulation for the probability that a student passes a course (estimated at 75%), which spinner is most appropriate?
- ☐ A. A spinner with 2 equal sections ☐ C. A spinner with 4 equal sections, 3 shaded
☐ B. A spinner with 3 equal sections, one shaded ☐ D. A spinner with 4 equal sections, 1 shaded



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- 1) A box of cereal contains 24 collectible cards: 6 are baseball players, 9 are basketball players, and 9 are soccer players. If you draw one card at random, what is the probability of drawing a basketball or soccer player card?

☐ A. $\frac{1}{4}$
☐ B. $\frac{1}{2}$

☐ C. $\frac{3}{4}$
☐ D. $\frac{9}{24}$

- 2) A triangular prism with a right-triangular base (legs 3 cm and 4 cm) and height 10 cm is sliced perpendicular to its triangular bases. Which shape could NOT be a cross-section?

☐ A. Triangle
☐ B. Rectangle

☐ C. Pentagon
☐ D. Hexagon

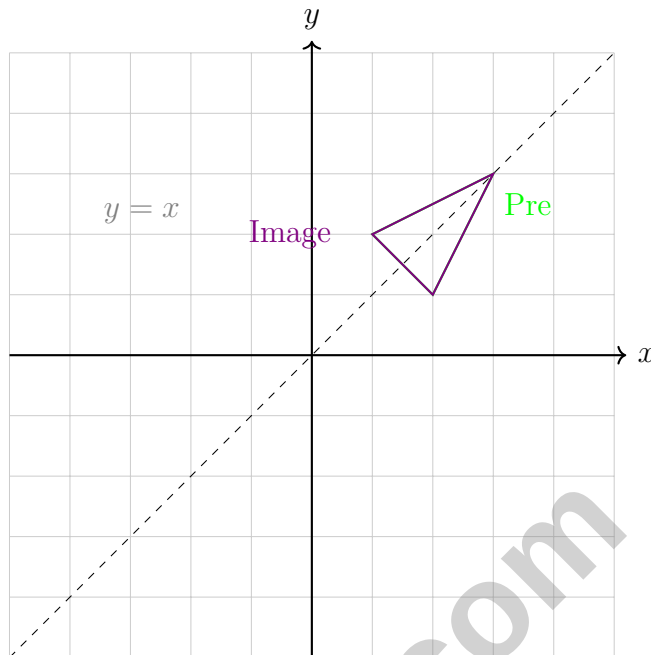
- 3) Two angles are supplementary. One angle is 15° less than the other. What is the measure of the smaller angle?

☐ A. 67.5°
☐ B. 75°

☐ C. 82.5°
☐ D. 97.5°



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4)

The green triangle is reflected over the line $y = x$ to form the purple triangle. Which vertex of the pre-image corresponds to the vertex at $(3, 3)$ in the image?

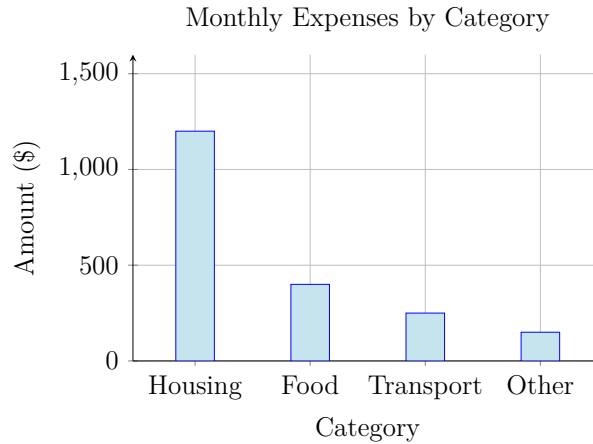
☐ A. $(1, 2)$ ☐ C. $(2, 1)$ ☐ B. $(3, 3)$ ☐ D. $(3, 1)$

5) Two triangles are similar. The sides of the smaller triangle are 3, 4, and 5. The longest side of the larger triangle is 15. What is the length of the shortest side of the larger triangle?

☐ A. 6☐ C. 9☐ B. 8☐ D. 12

- 1) A student evaluates $-4 - (-6)$ and claims the answer is -10 . What is the student's mistake?
- ☐ A. Computing $-4 + 6 = 2$ when the answer should be -10
- ☐ B. Adding the numbers instead of converting to addition: $-4 + (-6) = -10$
- ☐ C. Adding instead of subtracting the opposite value
- ☐ D. Correctly applying the rule but making a computation error
- 2) A spinner has 10 equal sections. Three are labeled W , four are labeled X , two are labeled Y , and one is labeled Z . Find $P(W \text{ or } X)$.
- ☐ A. $\frac{3}{10}$
- ☐ B. $\frac{4}{10}$
- ☐ C. $\frac{7}{10}$
- ☐ D. $\frac{1}{2}$
- 3) A beauty salon stylist earns \$100 in commission on \$250 in hair service sales. What is the commission rate?
- ☐ A. 25%
- ☐ B. 30%
- ☐ C. 35%
- ☐ D. 40%





4)

Based on the chart, how much is spent on housing?

☐ A. \$400☐ C. \$1 200☐ B. \$600☐ D. \$2 000

- 5) A baker makes 18 loaves of bread in 3 hours. At this constant rate, how many loaves are made per hour?

- 6) An account earning 3% annual compound interest starts with \$1,000. Approximately how many years until the balance reaches \$1,100?

☐ A. 2 years☐ C. 3.5 years☐ B. 5 years☐ D. 3 years

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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.NS.1-7.NS.3) Two withdrawals: $-\$12.75 - \$12.75 = -\$25.50$. New balance: $\$85.50 - \$25.50 = \$59.00$.
- 2) **Choice C is correct.** (7.RP.3) A: $\frac{|27-30|}{30} \times 100\% = 10\%$. B: $\frac{|32-30|}{30} \times 100\% \approx 6.7\%$. C: $\frac{|36-30|}{30} \times 100\% = 20\%$. D: $\frac{|28-30|}{30} \times 100\% \approx 6.7\%$. Estimate C (20%) has the largest percent error.
- 3) **Choice B is correct.** (7.EE.1-7.EE.2) Distribute 5 to both terms: $(3x) \cdot 5 + 2 \cdot 5 = 15x + 10$. The coefficient position on the right does not change the distributive property: $(b+c)a = ba + ca$.
- 4) **Choice D is correct.** (7.EE.4b) A closed circle at 2 with a left-pointing arrow indicates $x \leq 2$.
- 5) **Choice C is correct.** (7.RP.3) 75% of 20 is $0.75 \times 20 = 15$ games.
- 6) **Choice D is correct.** (7.RP.3) STEP 1: Convert percentage to decimal: $4\% = 4 \div 100 = 0.04$. STEP 2: $I = 1200 \times 0.04 \times 2 = \96 .
- 7) **Choice D is correct.** (7.NS.1b) Moving left on a number line means adding a negative: $4 + (-11) = -7$. You land at -7 .
- 8) **Choice A is correct.** (7.G.4-7.G.6) From the net, dimensions are $6 \text{ m} \times 4 \text{ m} \times 5 \text{ m}$. $SA = 2(6 \cdot 4 + 6 \cdot 5 + 4 \cdot 5) = 2(24 + 30 + 20) = 2(74) = 148 \text{ m}^2$.
- 9) **Choice D is correct.** (7.RP.1-7.RP.3) Divide actual by scale ratio: $30 \text{ m} \div 3 \text{ m per cm} = 10 \text{ cm}$.
- 10) **Choice D is correct.** (7.RP.3) Markup = $0.35 \times 600 = \$210$. Selling price = $600 + 210 = \$810$.
- 11) **Choice B is correct.** (7.EE.1) Simplify: $(9-4)x + 2y = 5x + 2y$. The coefficient of x is 5.
- 12) **Choice A is correct.** (7.EE.1-7.EE.2) Factor: $18x + 27 = 9(2x + 3)$. Length = $\frac{9(2x+3)}{9} = 2x + 3$.
- 13) **Choice C is correct.** (7.SP.5-7.SP.8) $75\% = \frac{3}{4}$. A spinner with 4 equal sections where 3 are shaded represents this probability.
- 14) **Choice D is correct.** (7.RP.1-7.RP.3) The unit-rate point (1, 0.8) shows that $k = 0.8$, so the equation is $y = 0.8x$.
- 15) **Choice C is correct.** (7.NS.1-7.NS.3) Common denominator 6: $-\frac{4}{6} - \frac{5}{6} = -\frac{9}{6} = -\frac{3}{2} = -1\frac{1}{2}$.
- 16) **Choice C is correct.** (7.EE.1-7.EE.2) Substitute: $3(4) - 2(-3) = 12 + 6 = 18$.
- 17) **Choice A is correct.** (7.EE.1-7.EE.2) Distribute the negative: $2s - 10 - s + 3 = (2s - s) + (-10 + 3) = s - 7$.
- 18) **Choice A is correct.** (7.EE.4b) Multiply both sides by $\frac{4}{3}$: $x < 9 \cdot \frac{4}{3} = \frac{36}{3} = 12$.
- 19) **Choice B is correct.** (7.SP.1-7.SP.4) A population is the entire group of interest. All teenagers who own a smartphone is the complete group; the other options describe samples or parts of a larger population.
- 20) **Choice A is correct.** (7.SP.5-7.SP.8) Die outcomes: 6; fruit outcomes: 3. By the counting principle: $6 \times 3 = 18$ outcomes. The student is correct.
- 21) **The correct answer is C,D.** (7.SP.1-7.SP.4) The total amounts are not given, so A and B cannot be determined from the percentages alone. Region Y has 50% indoor and 50% outdoor use, so C is correct. Region Y's outdoor percentage (50%) is higher than Region X's outdoor percentage (40%), so D is correct.
- 22) **Choice D is correct.** (7.RP.1-7.RP.3) The variables were reversed. Since a represents apples and p represents price, price should depend on apples: $p = \frac{10}{4}a = 2.5a$, not $a = \frac{10}{4}p$.
- 23) **Choice D is correct.** (7.RP.3) Set part over whole equal to percent over 100: $\frac{32}{80} = \frac{p}{100}$. Cross-multiply: $p = 40\%$.
- 24) **The correct answer is 15.** (7.NS.1-7.NS.3) The temperature drop is $3 - (-12) = 3 + 12 = 15$ degrees.
- 25) **Choice C is correct.** (7.RP.3) Time in the market is a key factor in investment returns. Starting early maximizes compound growth. Options A, B, and D are false or misleading.
- 26) **Choice B is correct.** (7.NS.1-7.NS.3) Change: $-30 - 0 = -30^\circ\text{C}$. Rate: $(-30) \div 10 = -3^\circ\text{C/hour}$.
- 27) **The correct answer is 10/3 mph.** (7.RP.1-7.RP.3) Unit rate = $\frac{5/6}{1/4} = \frac{5}{6} \times 4 = \frac{20}{6} = \frac{10}{3} = 3\frac{1}{3}$ mph.
- 28) **Choice C is correct.** (7.NS.2d) Divide $7 \div 10 = 0.7$. Powers of 10 always give terminating decimals.
- 29) **Choice B is correct.** (7.NS.1-7.NS.3) $\frac{7}{8} \times 64 = 7 \times 8 = 56$ gallons.



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Hi, Future Algebra Thinker!

◇ Grade 7 practice prepares you for the next math steps. Expressions, equations, proportional relationships, and graphs are all part of that bridge. This short, concentrated book gave you three focused Grade 7 practice tests, so you had repeated chances to build accuracy, pacing, and confidence.

◇

★ **Remember this:** Every time you solved for an unknown or explained a relationship, you were building skills that future math will use again. ★

Bridge Skills

- **Use Variables:** Let letters stand for unknown values.
- **Balance Equations:** Keep both sides fair.
- **Read Graphs:** Connect points to meaning.
- **Compare Rates:** Look for constant relationships.

Grade 7 test-day tip: When you see a variable, say what it represents. That keeps algebra connected to the problem.

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

Jay Daie

Your Algebra Bridge Coach

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