

10

Mississippi MAAP

GRADE
7
MATH

PRACTICE TESTS

Standards Aligned Problem
Solving For Comprehensive
Assessment Programs



10 PRINTED TESTS

Realistic practice to build
confidence and mastery



2 ONLINE TESTS

Extra practice for
continued success



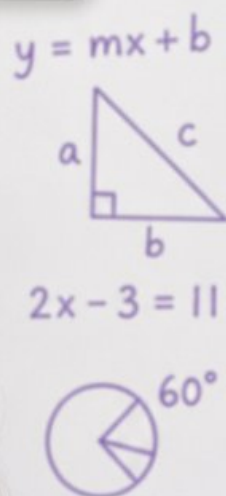
DETAILED ANSWER EXPLANATIONS

Learn with step-by-step
solutions



FOCUSED & EFFECTIVE

Target key math skills
with purposeful practice



10 PRINTED TESTS
+2 ONLINE TESTS

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

PRACTICE ★ REVIEW ★ SUCCEED

10 Mississippi MAAP Grade 7 Math Practice Tests

Mississippi Grade 7 MAAP Practice for river-clear preparation in rates, percent change, expressions, geometry, statistics, and probability



Ten 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!

Ten focused rounds for sharper Mississippi MAAP math thinking

This book gives you ten 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 ten-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?

Ten Mississippi MAAP tests, 400 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.
Test 10	A final Mississippi round to show growth across the whole book.
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) Solve for x : $4(x + 9) = 60$

☐ A. $x = 6$

☐ C. $x = 12$

☐ B. $x = 9$

☐ D. $x = 15$

2) Which expression is equivalent to $(4b + 7) + (6b - 12) - (2b + 1)$?

☐ A. $8b - 6$

☐ C. $8b + 18$

☐ B. $10b - 6$

☐ D. $10b - 8$

3) A car travels 240 miles in 4 hours. What is the car's average speed? Estimate to check reasonableness.

☐ A. 50 mph

☐ C. 80 mph

☐ B. 60 mph

☐ D. 120 mph

4) The wavelength of red light is 7×10^{-7} meters. What is this in standard form?

☐ A. 0.0000007 m

☐ C. 700,000 m

☐ B. 0.00000007 m

☐ D. 7,000,000 m

5) A beverage vendor mixes drinks using one flavor (Cherry, Lime, or Orange) and one temperature (Hot or Cold). A customer drinks 3 of the 6 possible combinations. How many combinations remain untasted?

☐ A. 2

☐ C. 4

☐ B. 3

☐ D. 5

6) Two datasets both have median 100 and IQR 20. Dataset P has mean 105. Dataset Q has mean 95. Without seeing the actual data, what can you infer?

☐ A. Both datasets are symmetric

☐ C. The two datasets are identical

☐ B. Dataset P has high outliers pulling the mean above the median; Dataset Q has low outliers

☐ D. Cannot infer anything about skewness



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7) A pictograph uses one star symbol to represent 50 students. If there are 12 stars shown for 7th grade, how many seventh-grade students are there?

☐ A. 12 students

☐ C. 62 students

☐ B. 50 students

☐ D. 600 students

8) A dot plot shows customer wait times (in minutes) at two restaurants. Restaurant X: 3, 4, 4, 5, 5, 5, 6, 6, 7 (minutes); Restaurant Y: 2, 5, 8, 10, 12, 15 (minutes). Which restaurant has more predictable wait times?

☐ A. Restaurant X (clustered around 5 minutes)

☐ C. Both restaurants have equally predictable times

☐ B. Restaurant Y (varies from 2 to 15 minutes)

☐ D. Restaurant Y is always faster

9) A circle has radius 7 cm. Find its circumference using $\pi \approx \frac{22}{7}$.

10) A number from 1 to 20 is selected at random. What is the probability of selecting a multiple of 3 OR a multiple of 5?

☐ A. $\frac{6}{20}$

☐ C. $\frac{8}{20}$

☐ B. $\frac{9}{20}$

☐ D. $\frac{10}{20}$



11) The stem-and-leaf plot shows:

Stem	Leaves
2	3, 5, 9
3	1, 4, 4, 7
4	2, 6

How many data values fall between 30 and 40 (inclusive)?

- ☐ A. 2 ☐ C. 4
☐ B. 3 ☐ D. 5
- 12) A student tossed a coin 100 times. The coin landed tails 58 times and heads 42 times. What is the difference between the experimental and theoretical probabilities of getting heads?
- ☐ A. 0.42 ☐ C. 0.08
☐ B. 0.10 ☐ D. 0.16
- 13) A recipe calls for 2.5 cups of milk. A cook estimated 2.2 cups. What is the percent error?
- ☐ A. 14% ☐ C. 10.5%
☐ B. 3% ☐ D. 12%
- 14) Expand: $-\frac{1}{2}(6x - 4)$
- ☐ A. $-3x + 2$ ☐ C. $3x - 2$
☐ B. $-3x - 2$ ☐ D. $-3x - 4$



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1) Which proportion is equivalent to “Find 38% of 210”?

☐ A. $\frac{38}{210} = \frac{100}{x}$

☐ B. $\frac{210}{100} = \frac{x}{38}$

☐ C. $\frac{x}{210} = \frac{100}{38}$

☐ D. $\frac{38}{100} = \frac{x}{210}$

2) A platform is designed as two congruent trapezoids joined at their parallel sides. Each trapezoid has parallel sides of 6 m and 4 m with height 3 m. What is the total platform area?

☐ A. 15 m²

☐ B. 30 m²

☐ C. 45 m²

☐ D. 60 m²

3) A rectangular prism has dimensions 2 feet, 3 feet, and 4 feet. A second rectangular prism has dimensions 4 feet, 6 feet, and 8 feet. How many times larger is the volume of the second prism than the first?

☐ A. 2 times

☐ B. 4 times

☐ C. 8 times

☐ D. 16 times

4) Expand: $(x + 5) \cdot (-2)$

☐ A. $-2x - 10$

☐ B. $-2x + 5$

☐ C. $2x - 10$

☐ D. $x - 10$

5) Which expression uses the associative property to group the two negative addends first?

☐ A. $-6 + 13 + (-7)$

☐ B. $(-6 + (-7)) + 13$

☐ C. $13 + (-6) + (-7)$

☐ D. $(13 + (-6)) + (-7)$



6) Which group shows ALL the like terms in the expression $5a + 3b + 7a + 2c + 8b$?

☐ A. $3b$ and $8b$

☐ B. $2c$ and $5a$

☐ C. $5a$ and $7a$

☐ D. $5a$, $7a$, $3b$, and $8b$

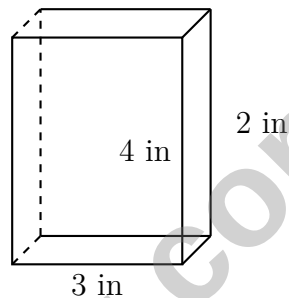
7) Factor: $-10x - 20$

☐ A. $-10(x + 2)$

☐ B. $10(x - 2)$

☐ C. $-10(x - 2)$

☐ D. $10(-x - 2)$



8)

The rectangular prism shown has dimensions $3 \text{ in} \times 2 \text{ in} \times 4 \text{ in}$. What is its surface area?

☐ A. 32 in^2

☐ B. 52 in^2

☐ C. 64 in^2

☐ D. 96 in^2

9) A percent can be converted to an angle in a circle graph. What angle corresponds to 25% of a circle?

☐ A. 45°

☐ B. 60°

☐ C. 90°

☐ D. 120°



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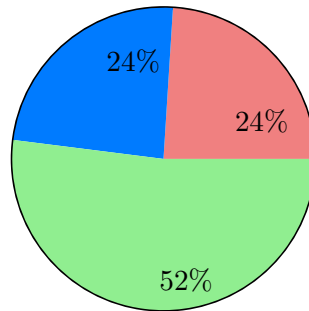
1) A machine produces $\frac{2}{3}$ box of items in $\frac{4}{9}$ hour. How many boxes per hour?

☐ A. $\frac{8}{27}$ box/hr

☐ B. $\frac{1}{6}$ box/hr

☐ C. $\frac{4}{6}$ box/hr

☐ D. $\frac{3}{2}$ boxes/hr



2)

The circle graph shows garden plot usage on a community farm. Coral is vegetables (24%), sky blue is flowers (24%), and green is herbs (52%). If there are 250 total plot assignments, how many are herb plots?

☐ A. 60

☐ B. 110

☐ C. 130

☐ D. 200

3) Evaluate: $(-4)^0$

☐ A. 0

☐ B. 1

☐ C. -4

☐ D. Undefined



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Fixed	$3w$ variable
-------	---------------

4) Total = 85 lbs

A shipping service charges a \$10 fixed packaging fee and \$3 per pound for the item weight. The bar model shows this cost structure. Which equation models the total cost C for an item weighing w pounds?

☐ A. $C = 3w + 10$

☐ C. $C = 3 + 10w$

☐ B. $C = 10w + 3$

☐ D. $C = 10(3w)$

5) Solve: $3x - 2 = 13$

☐ A. $x = 3$

☐ C. $x = 7$

☐ B. $x = 5$

☐ D. $x = 9$

6) Solve for x : $9(x - 1) = 45$

☐ A. $x = 4$

☐ C. $x = 6$

☐ B. $x = 5$

☐ D. $x = 7$

7) Solve: $5(2x - 3) = 35$

☐ A. $x = 2$

☐ C. $x = 5$

☐ B. $x = 4$

☐ D. $x = 7$

8) A rectangular classroom is 6 m by 8 m. The teacher makes a scale drawing with scale 1 cm : 50 cm. What are the drawing dimensions?

☐ A. 0.6 cm by 0.8 cm

☐ C. 12 cm by 16 cm

☐ B. 6 cm by 8 cm

☐ D. 60 cm by 80 cm



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.EE.4a) Distribute: $4x + 36 = 60$. Subtract 36: $4x = 24$. Divide by 4: $x = 6$.
- 2) **Choice A is correct.** (7.EE.1-7.EE.2) Combine step by step: $(4b + 6b - 2b) + (7 - 12 - 1) = 8b - 6$.
- 3) **Choice B is correct.** (7.EE.3-7.EE.4) Speed = $\frac{\text{distance}}{\text{time}} = \frac{240}{4} = 60$ mph. Reasonableness check: $60 \text{ mph} \times 4 \text{ hours} = 240 \text{ miles}$ ✓. Estimate: 240 is close to 250; $250 \div 5 \approx 50$, so 60 is reasonable.
- 4) **Choice A is correct.** (7.NS.1-7.NS.3) $7 \times 10^{-7} = 0.0000007$. Move decimal 7 places left.
- 5) **Choice B is correct.** (7.SP.5-7.SP.8) Total combinations: $3 \times 2 = 6$. Tasted: 3. Remaining: $6 - 3 = 3$ combinations.
- 6) **Choice B is correct.** (7.SP.1-7.SP.4) Same median (100) and IQR, but different means. Mean > Median indicates high outliers (right skew). Mean < Median indicates low outliers (left skew). Dataset P is right-skewed; Dataset Q is left-skewed.
- 7) **Choice D is correct.** (7.SP.1-7.SP.4) $12 \text{ stars} \times 50 \text{ students/star} = 600 \text{ students}$.
- 8) **Choice A is correct.** (7.SP.3) Restaurant X has most data points near 5 minutes with range 4 (from 3 to 7). Restaurant Y's range is 13 (from 2 to 15) with data spread across the range, making it less predictable.
- 9) **The correct answer is 44.** (7.G.4-7.G.6) $C = 2\pi r = 2 \times \frac{22}{7} \times 7 = 2 \times 22 = 44 \text{ cm}$.
- 10) **Choice B is correct.** (7.SP.5-7.SP.8) Multiples of 3: 3, 6, 9, 12, 15, 18 and multiples of 5: 5, 10, 15, 20. Total: 3, 5, 6, 9, 10, 12, 15, 18, 20 = 9 numbers. So $\frac{9}{20}$.
- 11) **Choice C is correct.** (7.SP.1-7.SP.4) Values in the range: 31, 34, 34, 37 (all from stem 3) = 4 values.
- 12) **Choice C is correct.** (7.SP.6) Experimental probability of heads: $\frac{42}{100} = 0.42$. Theoretical: 0.5. Difference: $|0.42 - 0.5| = 0.08$.
- 13) **Choice D is correct.** (7.RP.3) Percent error = $\frac{|2.2 - 2.5|}{2.5} \times 100\% = \frac{0.3}{2.5} \times 100\% = 12\%$.
- 14) **Choice A is correct.** (7.EE.1-7.EE.2) Distribute $-\frac{1}{2}$: $-\frac{1}{2}(6x) - \frac{1}{2}(-4) = -3x + 2$. Negative times negative is positive.
- 15) **Choice D is correct.** (7.RP.3) In $I = Prt$, with P and t constant, I scales linearly with r . If r doubles, I doubles.
- 16) **The correct answer is 343.** (7.G.4-7.G.6) $V = s^3 = 7^3 = 343 \text{ ft}^3$.
- 17) **Choice D is correct.** (7.NS.1-7.NS.3) $-9 - (-3) = -9 + 3 = -6$.
- 18) **The correct answer is A,C.** (7.G.4-7.G.6) Large square: $20 \times 20 = 400 \text{ m}^2$ (A). Small square: $5 \times 5 = 25 \text{ m}^2$. Remaining: $400 - 25 = 375 \text{ m}^2$ (C). The cutout is $\frac{25}{400} = \frac{1}{16}$ of the original area, not $\frac{1}{20}$.
- 19) **Choice C is correct.** (7.RP.1-7.RP.3) Drawing dimensions: $200 \div 10 = 20 \text{ cm}$; $150 \div 10 = 15 \text{ cm}$. Perimeter = $2(20 + 15) = 70 \text{ cm}$.
- 20) **The correct answer is 10.67.** (7.G.4-7.G.6) $V = \pi r^2 h \Rightarrow 301.44 = 3.14 \times 9 \times h \Rightarrow 301.44 = 28.26h \Rightarrow h \approx 10.67$ inches.
- 21) **Choice C is correct.** (7.RP.3) 55% of 200 is $0.55 \times 200 = 110$ students.
- 22) **Choice D is correct.** (7.RP.3) After discount: $50 - 0.20(50) = \$40$. Tax on \$40: $0.06(40) = \$2.40$. Final: $40 + 2.40 = \$42.40$.
- 23) **Choice D is correct.** (7.NS.1b) If -6 plus an unknown value equals 9, then the unknown is 15 because $-6 + 15 = 9$. The distance from -6 to 9 is 15 units.
- 24) **Choice C is correct.** (7.EE.1-7.EE.2) GCF of $48m$ and 24: GCF of 48 and 24 is 24. No variable is common to both. GCF is 24.
- 25) **Choice B is correct.** (7.SP.1-7.SP.4) 15% of 300 = $0.15 \times 300 = 45$ gallons.
- 26) **Choice B is correct.** (7.EE.1-7.EE.2) Product of a and b is ab . Increased by 10 means add 10: $ab + 10$.
- 27) **Choice B is correct.** (7.EE.4b) Add 4: $3x \leq 15$. Divide by 3: $x \leq 5$.
- 28) **Choice A is correct.** (7.RP.1-7.RP.3) The unit-rate point (1, 0.8) represents the rate at 1 hour, so the hourly rate is \$0.80 per hour. Option B (\$1.60) is a distractor for students who double the marked value.
- 29) **The correct answer is 120.** (7.SP.1-7.SP.4) The sample size is the number of individuals surveyed. In this case, 120 adults were randomly selected and surveyed, so the sample size is 120.
- 30) **Choice A is correct.** (7.RP.3) Miscellaneous = $(100\% - 50\% - 20\% - 15\% - 10\%) \times \$1,500 = 5\% \times 1500 = \75 .



Hi, Math Hero!

◇ This full-length book gave you ten complete Grade 7 practice tests, so you had repeated chances to build accuracy, pacing, and confidence. You showed up for Grade 7 practice again and again. That is what real growth looks like: steady effort, honest review, and a willingness to try. ◇

★ **Remember this:** A math hero is not someone who never misses a question. A math hero learns from the miss and comes back stronger. ★

Hero Habits

- **Courage:** You try problems that are not automatic.
- **Honesty:** You review what needs work.
- **Patience:** You let skills grow over time.
- **Pride:** You recognize the effort you gave.

Grade 7 test-day tip: Save one solved problem you are proud of. Looking back at progress helps motivation stay strong.

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

Jay Daie

Your Math Hero Guide

PRACTICE TODAY. SUCCEED TOMORROW!

This book includes 10 full-length Math practice tests and 2 extra 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:

10 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



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.

TOPICS COVERED

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



2 EXTRA 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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