

# 5 FULL-LENGTH Mississippi MAAP

## GRADE 5 MATH

### ★ PRACTICE TESTS ★



5 FULL-LENGTH  
PRACTICE TESTS



COMPLETE  
STANDARDS  
REVIEW



SKILL PRACTICE,  
WORD PROBLEMS,  
AND MORE!

$$\frac{3}{4} + \frac{2}{4} = \frac{5}{4}$$



$$12 \times 3 = 36$$



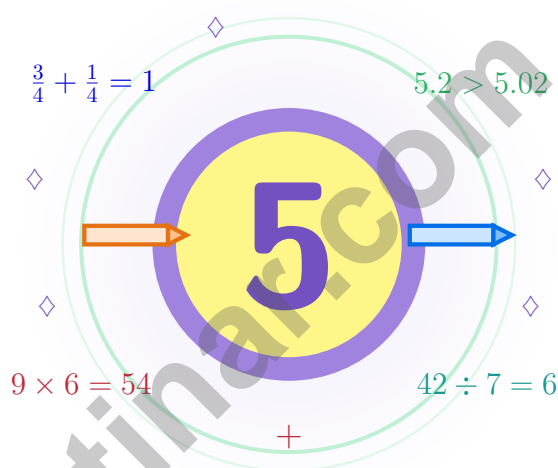
$$\frac{7}{10} = 0.7$$



**BUILT FOR SUCCESS. DESIGNED TO HELP EVERY STUDENT.**

# 5 Mississippi MAAP Grade 5 Math Practice Tests

*Your practice journey starts here, one smart checkpoint at a time*



Five full tests, a friendly quick review, smart strategy pages, and student-tested support that turn Grade 5 practice in The Magnolia State into a steady quest of real growth.

**Jay Daie and Reza Nazari**



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# Welcome to the Math Quest, Mississippi

Your practice journey starts here, one smart checkpoint at a time

## Quest Briefing for Mississippi Grade 5 Math Crew

This book is your practice zone, not a place to be perfect. Each of the five tests gives you a chance to notice clues, choose a strategy, check your thinking, and come back stronger for the next round. Strong math grows like a magnolia: slowly, gracefully, with blossoms that show up after lots of patient root work.

Some questions will feel easy right away. Some will make you slow down, draw, estimate, or retry. That is excellent news. It means your math brain is doing real work.

### Notice

Notice everything the problem says, shows, and asks.

### Sketch

Sketch a quick model, table, or number line.

### Confirm

Confirm your answer with a quick estimate.

**A strong quest habit for Mississippi:** slow down, write neatly, estimate before you solve, and keep going even when a problem looks tricky at first. That is exactly how confident math students are built.

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# How to Use This Book

A simple routine that turns five tests into real growth

## Step 1: Read

**Read the quick review pages first.**  
Wake up important ideas before you begin so your brain is ready to use them.

## Step 2: Try

**Try one full test with full attention.**  
Find a quiet space, work carefully, and let accuracy matter more than speed.

## Step 3: Reflect

**Reflect on which skills want more sunlight.**  
Circle missed questions and look for patterns. Which skill or habit needs another try?

## Step 4: Lift

**Lift those skills before the next test.**  
Read the explanation, repair the work, and carry that lesson into the next test.

## A Five-Week Mississippi Quest Map

Week	Mission Focus
Week 1	Take Test 1 like a slow river morning – patient, careful, watching.
Week 2	Take Test 2 and notice one habit that grew steadier.
Week 3	Take Test 3 and lift fractions, decimals, and conversions.
Week 4	Take Test 4 and slow down on multi-step problems.
Week 5	Take Test 5 with calm, careful focus.



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## Grade 5 Mathematics Reference Materials

### PERIMETER AND AREA

Perimeter of Rectangle  $P = 2l + 2w$  or  $P = 2(l + w)$

Area of Rectangle  $A = l \times w$

Area of Triangle  $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism  $V = l \times w \times h$

### LENGTH

#### Customary

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

#### Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

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### CAPACITY

#### Customary

1 cup (c) = 8 fluid ounces (fl oz)

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

#### Metric

1 liter (L) = 1,000 milliliters (mL)

### WEIGHT AND MASS

#### Customary

1 pound (lb) = 16 ounces (oz)

#### Metric

1 kilogram (kg) = 1,000 grams (g)

1 gram (g) = 1,000 milligrams (mg)

### TIME

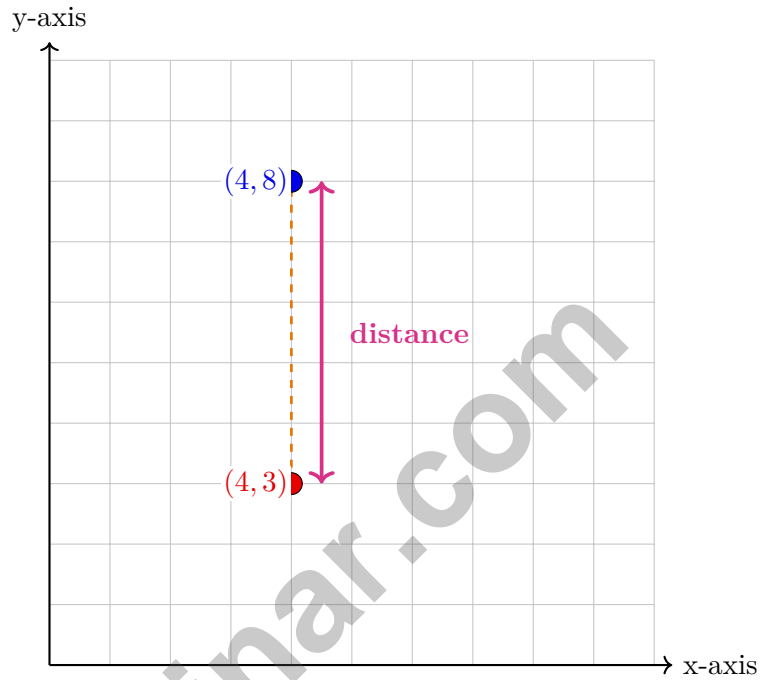
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- 1) A point is located by moving 4 units right, then 3 units up from the origin. A second point is located by moving 4 units right, then 8 units up. How many units apart (vertically) are these two points?



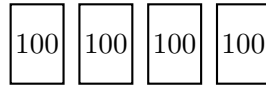
- A. 4 units
- B. 5 units
- C. 8 units
- D. 11 units
- 2) A juice carton holds 8 cups. How many pints is that? (1 pint = 2 cups)

8 cups → ? pints

- A. 2 pints
- B. 8 pints
- C. 6 pints
- D. 4 pints

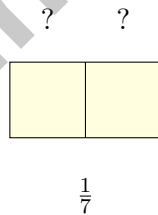


- 3) A bookstore receives 11 boxes. Each box contains 100 books. How many books does the bookstore receive?



each box has 100; 11 boxes total

- A. 111                                       C. 11000  
 B. 110                                       D. 1100
- 4) Pattern Epsilon is 1, 3, 5, 7. Pattern Zeta is 4, 12, 20, 28. Which statement describes how each Zeta value is related to the matching Epsilon value?
- A. Multiply Epsilon by 8.                                       D. Multiply Epsilon by 8, then subtract 4.  
 B. Multiply Epsilon by 4.  
 C. Add 3 to Epsilon.
- 5) The diagram shows a bar representing  $\frac{1}{7}$  divided into 2 equal parts. What is the value of each part?



- A.  $\frac{1}{14}$                                        C.  $\frac{1}{5}$   
 B.  $\frac{2}{7}$                                        D.  $\frac{7}{2}$



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1) A bookshelf space measures 10 inches long, 3 inches wide, and 3 inches tall. What is its volume?

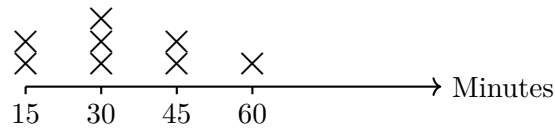
A. 30 cubic inches

C. 9 cubic inches

B. 90 cubic inches

D. 16 cubic inches

2) The line plot shows times (in minutes) students spent on homework:



How many more students spent 30 minutes than 60 minutes on homework?

A. 2 more students

C. 4 more students

B. 3 more students

D. 5 more students

3) Subtract:  $7\frac{3}{8} - 4\frac{6}{8}$  (requires borrowing).

A.  $2\frac{5}{8}$

C.  $3\frac{1}{8}$

B.  $2\frac{6}{8}$

D.  $3\frac{2}{8}$

4) A baker has 5 pounds of flour. Each loaf needs  $\frac{1}{4}$  pound. How many loaves can be made?

*Record your answer in the space provided.*



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### TIME

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1) Evaluate:  $72 \div 8 + 3 \times 3 - 5$

A. 12

C. 14

B. 13

D. 16

2) How many  $\frac{1}{6}$ -hour music lessons can fit into 2 hours?

A. 6 lessons

C. 10 lessons

B. 8 lessons

D. 12 lessons

3) Subtract and simplify:  $\frac{5}{6} - \frac{1}{4}$

Use twelfths as a common denominator.



A.  $\frac{7}{12}$

C.  $\frac{1}{2}$

B.  $\frac{2}{3}$

D.  $\frac{5}{12}$

4) A student multiplies 0.18 by 10,000 and gets 18. Is the result correct?

A. Correct

B. Too small; correct is 180

C. Too large; correct is 1.8

D. Too small; correct is 1,800

5) The first input is 1 and the first output is 1. The output doubles each time. Give ordered pairs (input, output) for inputs 1, 2, 3, and 4.

A. (1, 2), (2, 4), (3, 6), (4, 8)

B. (1, 1), (2, 2), (3, 4), (4, 8)

C. (1, 2), (2, 4), (3, 8), (4, 16)

D. (1, 1), (2, 3), (3, 5), (4, 7)



## Practice Test Answer Keys

### How to use this section:

1. check your answer
2. circle missed questions
3. rework them before reading the explanation

**Good correction habits build strong scores.**

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## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** (5.G.1) Both points have x-coordinate 4. Point 1 is at (4, 3) and Point 2 is at (4, 8). The vertical distance is  $8 - 3 = 5$  units.
- 2) **Choice D is correct.** (5.MD.1) Since 1 pint = 2 cups, divide 8 by 2:  $8 \div 2 = 4$  pints.
- 3) **Choice D is correct.** (5.NBT.2)  $11 \times 100 = 1100$ . Append two zeros to 11.
- 4) **Choice B is correct.** (5.OA.3) Check the matching terms:  $1 \times 4 = 4$ ,  $3 \times 4 = 12$ ,  $5 \times 4 = 20$ , and  $7 \times 4 = 28$ .
- 5) **Choice A is correct.** (5.NF.7c) The bar shows one seventh split into 2 equal parts. Each part is half of  $\frac{1}{7}$ , so  $\frac{1}{7} \div 2 = \frac{1}{14}$ .
- 6) **The correct answer is 6.** (5.NF.6) The question asks for  $\frac{3}{4}$  of 8 cups, so multiply:  $\frac{3}{4} \times 8 = 6$ . The answer is 6 cups.
- 7) **Choice A is correct.** (5.MD.1) Divide milliliters by 1,000:  $750 \div 1000 = 0.75$  L.
- 8) **The correct answer is  $\frac{7}{12}$ .** (5.NF.5b) Multiply across to get  $\frac{14}{24}$ . Both numbers are divisible by 2, so  $\frac{14}{24} = \frac{7}{12}$ .
- 9) **Choice B is correct.** (5.NF.2)  $\frac{1 \times 5}{6 \times 5} = \frac{5}{30}$ .
- 10) **The correct answer is 11.** (5.OA.1) The parentheses give  $15 + 9 = 24$ . Then  $24 \div 4 = 6$ , and the remaining steps are  $6 - 2 = 4$  and  $4 + 7 = 11$ .
- 11) **Choice D is correct.** (5.G.3) The right trapezoid shown has 2 right angles (on the left side, marked with squares) and 2 non-right angles on the right.
- 12) **Choice A is correct.** (5.G.2) The second coordinates follow 2, 5, 8, 11, adding 3 each step. The plotted points are (1,2), (2,5), (3,8), and (4,11), so they match.
- 13) **Choice B is correct.** (5.MD.3b) Box X:  $4 \times 5 \times 8 = 160$  cu. cm. Box Y:  $2 \times 10 \times ? = 160$ . So  $20 \times ? = 160$ , thus  $? = 8$  cm.
- 14) **Choice A is correct.** (5.NF.1) Use sixths:  $8\frac{1}{3} = 8\frac{2}{6}$ . Regroup as  $7\frac{8}{6}$ . Then  $7\frac{8}{6} - 2\frac{5}{6} = 5\frac{3}{6} = 5\frac{1}{2}$ .
- 15) **Choice D is correct.** (5.NBT.2) Dividing by 10 makes the number one-tenth as large, so 9.6 becomes 0.96.
- 16) **Choice C is correct.** (5.MD.5) The base area is  $18 \times 7 = 126$  square inches. Since  $504 \div 126 = 4$ , the height is 4 in.
- 17) **Choice A is correct.** (5.NF.4b) Multiply the side lengths to find the area:  $\frac{3}{5} \times \frac{2}{3} = \frac{6}{15} = \frac{2}{5}$  square yard.
- 18) **Choice D is correct.** (5.NBT.5) Multiply:  $39 \times 28 = 39 \times (30 - 2) = (39 \times 30) - (39 \times 2) = 1,170 - 78 = 1,092$  seats.
- 19) **Choice C is correct.** (5.NF.5a) Multiplying by 1 always gives the same number. So  $16 \times 1 = 16$ .
- 20) **Choice C is correct.** (5.MD.2) Add the costs shown by the marks:  $(2 \times 2) + (4 \times 3) + (6 \times 2) + (8 \times 3) = 4 + 12 + 12 + 24 = 52$ , so the total cost is \$52.
- 21) **Choices A, B are correct.** (5.NBT.2)  $500 \div 10 = 50$  and  $7,000 \div 1,000 = 7$ . C should be 90, and D should be 40.
- 22) **Choice A is correct.** (5.OA.2) Both expressions start with the same base amount, (45 - 15). Adding 8 moves the value up, while subtracting 8 moves it down.
- 23) **Choice C is correct.** (5.NBT.7) Multiply  $5 \times 0.75 = 3.75$ . Since 0.75 has 2 decimal places and 5 has 0, the product has 2 decimal places: \$3.75.
- 24) **Choice B is correct.** (5.G.2) The x-coordinate (5) represents time in hours, and the y-coordinate (20) represents temperature in degrees Celsius. So at 5 hours, the temperature is 20°C.
- 25) **Choice D is correct.** (5.MD.2) Greatest length is 2 feet, least is 0. Range =  $2 - 0 = 2$  feet.
- 26) **Choice A is correct.** (5.MD.5) Use the rectangular-prism volume formula:  $12 \times 6 \times 8 = 576$ . So the volume is 576 cubic inches.
- 27) **Choice B is correct.** (5.MD.5a) The base area tells how many square units are in one layer. Multiplying by the height counts all the layers, so  $V = B \times h$ .
- 28) **The correct answer is 5 polygons.** (5.G.B)  $12 - 7 = 5$  polygons are outside the quadrilateral part of the diagram.
- 29) **Choice D is correct.** (5.NF.1)  $\text{LCM}(8,6) = 24$ .  $\frac{5}{8} = \frac{15}{24}$  and  $\frac{1}{6} = \frac{4}{24}$ .  $\frac{15}{24} + \frac{4}{24} = \frac{19}{24}$ .
- 30) **Choice D is correct.** (5.NF.7c) Divide a unit fraction by a whole number:  $\frac{1}{2} \div 4 = \frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$  pound per batch.
- 31) **Choice C is correct.** (5.MD.5a) Volume =  $4 \times 3 \times 5 = 60$  unit cubes.



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### Director's Notes: Final Scene

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#### Greetings, Star Performer!

★ Spectacular performance! You've rehearsed five complete mathematical productions, perfecting your delivery and timing like a professional actor! Each test was a dress rehearsal, allowing you to fine-tune your performance, discover your strengths, and polish your techniques. Opening night (test day) approaches, and you're absolutely ready for the spotlight! ★

◇ **Here's what acclaimed performers understand:** confidence comes from thorough preparation. Professional actors rehearse extensively so that when the curtain rises, they can perform naturally and confidently. You've completed your rehearsals five of them! Your mathematical performance skills are polished and ready. Trust your preparation and deliver an outstanding show! ◇

#### Performance Review Notes

1. **Character Development:** You understand your mathematical role completely!
2. **Stage Presence:** You approach problems with confidence and poise!
3. **Line Delivery:** You express solutions clearly and accurately!
4. **Show Ready:** You're prepared for a standing ovation!

**Remember this performance wisdom:** great actors don't memorize words they understand characters. You haven't just memorized procedures you understand mathematical concepts. That deep understanding means you can adapt to any question variation. When the test begins, step into your role confidently and perform brilliantly!

Want to share your mathematical performance insights or celebrate a particularly elegant solution? Send your reviews to [reza@testinar.com](mailto:reza@testinar.com). I appreciate mathematical artistry!

**Reza Nazari & Jay Daie**

Your Math Coaches—Keep Going!

# 5 FULL-LENGTH TESTS. STRONG SKILLS. BRIGHTER RESULTS.



Build confidence and master math with **5 full-length** practice tests designed to reflect the real test experience. This book provides the practice, review, and support students need to succeed in Grade 5 and beyond!

## WHAT'S INSIDE:



### 5 FULL-LENGTH PRACTICE TESTS

Realistic tests that build familiarity, boost focus, and improve test readiness.



### COMPLETE STANDARDS REVIEW

Covers all essential Grade 5 math topics with clear explanations and examples.



### SKILL PRACTICE

Strengthen key math skills through a wide variety of practice questions.



### WORD PROBLEMS

Build critical thinking and problem-solving skills with real-world questions.



### FULL ANSWER KEY

Step-by-step explanations for every question to help students learn and improve.



## PRACTICE MORE. LEARN BETTER. SUCCEED ANYWHERE.



**Build Confidence**  
with consistent  
practice



**Improve Accuracy**  
and problem-  
solving skills



**Time Management**  
strategies for  
test success



**Achieve Your  
Best Score!**



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