

# 7

# Mississippi

# MAAP

## GRADE 5

# MATHEMATICS

## PRACTICE TESTS

✓  
**PRACTICE  
PREPARE  
SUCCEED**

★★★

Comprehensive Standards-Aligned  
Review for Strong Grade 5  
Math Performance



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

$$2.4 + 1.6 = 4.0$$

$$A = \frac{bh}{2}$$



**7 FULL-LENGTH  
PRACTICE TESTS**

Realistic style  
questions



**STANDARDS-  
ALIGNED**

Covers all Grade 5  
standards



**BUILD CONFIDENCE**

Target weak areas  
and improve  
performance



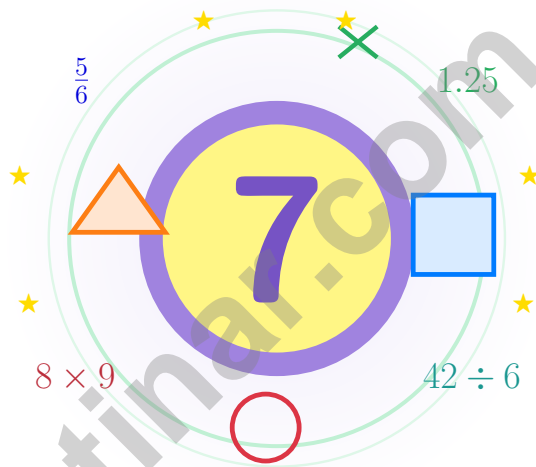
**ACHIEVE SUCCESS**

Develop skills,  
stay prepared,  
excel on test day

★ PRACTICE TODAY. PERFORM TOMORROW. **SUCCEED** FOREVER. ★

# 7 Mississippi MAAP Grade 5 Math Practice Tests

*This book is here to help you practice, reflect, and rise across seven tests*



Seven full tests, a concise review, and helpful support that turns  
Grade 5 practice in The Magnolia State into steady, confident  
growth from page one to the final check.

**Jay Daie and Reza Nazari**



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# Mississippi, Your Seven-Test Trail Begins

Seven full tests woven into one calm, steady practice path

## Dear Mississippi Math Trail Crew

This practice book is your steady companion for seven tests, not a place to be perfect. Strong math grows like a magnolia: slowly, gracefully, with blossoms that show up after lots of patient root work.

Use these seven tests like stepping-stones. Take one test at a time, check your answers honestly, and notice which skills need more attention. Small improvements add up across seven rounds.

### Watch

Watch what the problem actually wants from you.

### Choose

Choose the operation, model, or table that fits.

### Polish

Check labels, units, and the final word of the question.

**A strong habit for Mississippi mathematicians:** read carefully, estimate when it helps, show your steps, and keep going even when a question feels tricky. That is how steady math confidence is built.

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# Your Seven-Step Trail Plan

A simple routine that turns practice into progress

## Step 1: Open

**Open the warm-up review and use it.**

Spend a few minutes waking up your memory before the test begins.

## Step 2: Test

**Take the test with steady focus.**

Work in a calm spot and focus on careful thinking before speed.

## Step 3: Reflect

**Notice what was sharp and what was shaky.**

Circle missed questions and notice which topics keep showing up.

## Step 4: Sharpen

**Practice the shaky skills before the next round.**

Read the explanation, repair the work, and bring that lesson into the next test.

## A Good 7-Week Mississippi Rhythm

<b>Week 1</b>	Take Test 1 like a slow river morning.
<b>Week 2</b>	Take Test 2 and slow down on word problems.
<b>Week 3</b>	Take Test 3 and lift fraction and decimal work.
<b>Week 4</b>	Take Test 4 and pay close attention to labels and units.
<b>Week 5</b>	Take Test 5 and compare your habits with your first test.
<b>Week 6</b>	Take Test 6 and practice staying calm during tricky questions.
<b>Week 7</b>	Take Test 7 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)

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#### Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

1 kilometer (km) = 1,000 meters (m)

### CAPACITY

#### Customary

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

1 pint (pt) = 2 cups (c)

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### WEIGHT AND MASS

#### Customary

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### TIME

1 minute (min) = 60 seconds (sec)    1 week = 7 days

1 hour (hr) = 60 minutes (min)    1 year = 12 months

1 day = 24 hours (hr)    1 year = 52 weeks



1) Order these four decimals from least to greatest:

6.02, 6.18, 6.5, 6.35

A. 6.02, 6.18, 6.35, 6.5

C. 6.5, 6.35, 6.18, 6.02

B. 6.02, 6.35, 6.18, 6.5

D. 6.18, 6.02, 6.35, 6.5

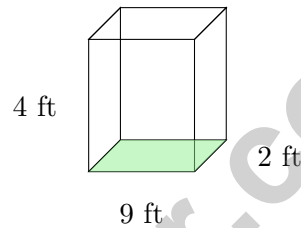
2) A classroom aquarium has volume  $336 \text{ cm}^3$  and base area  $56 \text{ cm}^2$ . How deep is the water?

A. 6 cm

C. 4 cm

B. 5 cm

D. 7 cm



3)

Find the volume.

A.  $18 \text{ ft}^3$

C.  $72 \text{ ft}^3$

B.  $36 \text{ ft}^3$

D.  $15 \text{ ft}^3$

4) A storage box is 10 inches long, 8 inches wide, and 6 inches tall. What is the volume?

A.  $240 \text{ in}^3$

C.  $480 \text{ in}^3$

B.  $360 \text{ in}^3$

D.  $520 \text{ in}^3$

5) A temperature graph passes through  $(0, 50)$  and  $(4, 70)$ . What is the change in temperature?

*Record your answer in the space provided.*



6) A rectangle shows one fifth split equally among 2 students. Which equation matches the model?

A.  $2 \times \frac{1}{5} = ?$

C.  $\frac{1}{5} + 2 = ?$

B.  $2 \div \frac{1}{5} = ?$

D.  $\frac{1}{5} \div 2 = ?$

7) A currency converter shows 1 dollar = 100 cents. If you have 68 dollars, how many cents?

Dollars	68
Cents per Dollar	100
Total Cents	?

A. 68

C. 6800

B. 680

D. 68000

8) A garden bed is  $4\frac{1}{2}$  ft long and 2 ft wide. What is its area?

*Record your answer in the space provided.*

9) A craft project uses  $\frac{1}{4}$  meter of ribbon. The ribbon is cut into 3 equal pieces. How long is each piece?

A.  $\frac{1}{12}$  meter

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

B.  $\frac{3}{4}$  meter

D.  $\frac{1}{7}$  meter



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1) What is the missing exponent?  $39 \times 10^{\text{—}} = 3900$

A. 1

C. 3

B. 4

D. 2

2) Which subtraction is correct?

Student	Work	Answer
A	$9.76 - 3.24 = 6.52$	6.52
B	$9.76 - 3.24 = 6.42$	6.42
C	$9.76 - 3.24 = 7.00$	7.00
D	$9.76 - 3.24 = 5.76$	5.76

A. A

C. C

B. B

D. D

3) A race is 16 miles long. A runner completes  $\frac{3}{4}$  of the race. Then the runner completes  $\frac{1}{2}$  of the distance still remaining. How many miles has the runner covered in all?

A. 12 miles

C. 16 miles

B. 14 miles

D. 18 miles

4) A recipe calls for  $\frac{1}{3}$  cup of oil and  $\frac{1}{2}$  cup of water. To measure both together, what common denominator would you use?

A. 2

C. 5

B. 3

D. 6



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1) A jug has 10 liters of water. Each bottle holds one fifth liter. Which division equation matches the situation?

A.  $\frac{1}{5} \div 10 = n$

B.  $10 \times \frac{1}{5} = n$

C.  $10 + \frac{1}{5} = n$

D.  $10 \div \frac{1}{5} = n$

2) A length is 25.982 meters. Round to the nearest whole meter.

A. 25 m

B. 25.9 m

C. 25.98 m

D. 26 m

3) A composite solid has total volume 120 cubic feet. One non-overlapping prism is 72 cubic feet. What is the volume of the other prism?

A. 72 cubic feet

B. 48 cubic feet

C. 24 cubic feet

D. 96 cubic feet

4) Error analysis: A student computed  $6.8 \times 10^2$  and got 6.80. What mistake did the student make?

A. Did not move the decimal at all

B. Moved decimal 1 place instead of 2

C. Moved decimal left instead of right

D. Added a zero instead of moving the decimal

5) Find:  $7,000,000 \div 10^4$ .

*Record your answer in the space provided.*



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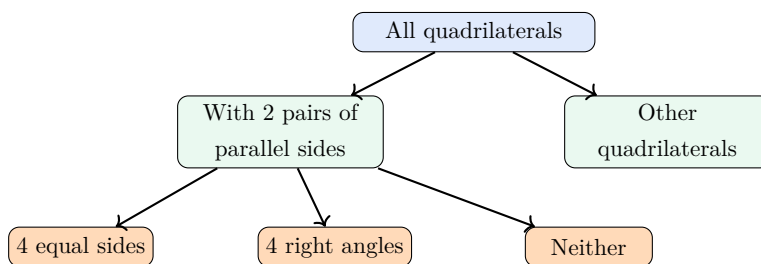
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A square would have both 4 equal sides and 4 right angles.

1)

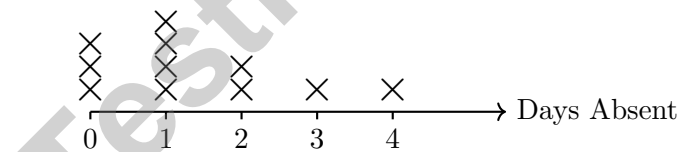
A shape has two pairs of parallel sides, four right angles, and not all sides equal. Which is the MOST SPECIFIC classification?

- A. Quadrilateral
- B. Parallelogram
- C. Rectangle
- D. Trapezoid

2) A toy company produces 1000 toys per hour. In 82 hours, how many toys?

- A. 1082
- B. 8200
- C. 82000
- D. 820000

3) The line plot shows the number of days students were absent from school:



Which value appears most often?

- A. 0 days
- B. 1 day
- C. 2 days
- D. 3 days



## 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 A is correct.** **(5.NBT.3b)** All have 6 ones. Compare the tenths and hundredths:  $6.02 < 6.18 < 6.35 < 6.50$ .
- 2) **Choice A is correct.** **(5.MD.5)** The base area is 56 square centimeters. Since  $336 \div 56 = 6$ , the water is 6 cm deep.
- 3) **Choice C is correct.** **(5.MD.5a)**  $V = 9 \times 2 \times 4 = 72 \text{ ft}^3$ .
- 4) **Choice C is correct.** **(5.MD.5a)** Volume =  $10 \times 8 \times 6 = 480 \text{ in}^3$ .
- 5) **The correct answer is 20.** **(5.G.2)** Compare the y-values:  $70 - 50 = 20$ . The temperature changed by 20 degrees.
- 6) **Choice D is correct.** **(5.NF.7c)** The one-fifth piece is the amount being shared into 2 equal parts. So the matching division equation is  $\frac{1}{5} \div 2 = ?$ .
- 7) **Choice C is correct.** **(5.NBT.2)**  $68 \times 100 = 6800$  cents. Append two zeros to 68.
- 8) **The correct answer is 9 ft<sup>2</sup>.** **(5.NF.6)**  $4\frac{1}{2} \times 2 = \frac{9}{2} \times 2 = 9$ , so the area is 9 square feet.
- 9) **Choice A is correct.** **(5.NF.7c)**  $\frac{1}{4} \div 3 = \frac{1}{4} \times \frac{1}{3} = \frac{1}{12}$ .
- 10) **Choice C is correct.** **(5.G.3)** By definition, a rhombus has all four sides of equal length.
- 11) **Choice C is correct.** **(5.MD.5)** One box has volume  $3 \times 3 \times 3 = 27$  cubic meters. There are 6 boxes, so  $27 \times 6 = 162$  cubic meters.
- 12) **Choice D is correct.** **(5.NF.2)**  $\frac{9}{12} - \frac{3}{12} = \frac{6}{12}$ , which simplifies to  $\frac{1}{2}$ .
- 13) **Choice C is correct.** **(5.NBT.2)** Dividing by 1,000 moves the decimal point three places to the left.  $8,000 \div 1,000 = 8$ .
- 14) **Choice C is correct.** **(5.NF.1)** Add:  $1\frac{5}{12} + 2\frac{7}{12} = 3\frac{12}{12} = 4$ .
- 15) **Choice D is correct.** **(5.MD.3b)** Prism 1:  $2 \times 3 \times 4 = 24$ . Prism 2:  $1 \times 5 \times 4 = 20$ . Prism 3:  $3 \times 2 \times 5 = 30$ . From smallest to largest, the volumes are 20, 24, 30, so the order is 2, 1, 3.
- 16) **Choice C is correct.** **(5.NBT.7)** Multiply:  $56 \times 15 = 840$ , then place decimal two places from right:  $8.40 = 8.4$ .
- 17) **Choice A is correct.** **(5.NF.5a)** Since  $\frac{7}{8}$  is less than 1,  $\frac{7}{8} \times 16$  is less than 16. So Expression A is less than Expression B.
- 18) **Choice A is correct.** **(5.MD.5a)** Check each prism so there is only one match. A:  $10 \times 4 \times 3 = 120$ . B:  $6 \times 5 \times 5 = 150$ . C:  $8 \times 5 \times 4 = 160$ . D:  $12 \times 3 \times 2 = 72$ . Prism A has volume 120 cubic units.
- 19) **Choice C is correct.** **(5.NF.4)**  $2 \times \frac{5}{8} = \frac{10}{8} = 1\frac{1}{4}$  pounds.
- 20) **Choices A, B are correct.** **(5.NBT.5)**  $27 \times 46 = 1242$  and  $54 \times 23 = 1242$ . The other products are  $42 \times 30 = 1260$  and  $18 \times 72 = 1296$ .
- 21) **Choice A is correct.** **(5.OA.3)** Look at how much the pattern changes each time:  $11 - 6 = 5$ ,  $16 - 11 = 5$ , and  $21 - 16 = 5$ . The repeated difference is 5, so the rule is add 5.
- 22) **Choice D is correct.** **(5.NF.2)** Completed:  $\frac{7}{10} + \frac{1}{5} = \frac{7}{10} + \frac{2}{10} = \frac{9}{10}$ . Left:  $1 - \frac{9}{10} = \frac{1}{10}$ .
- 23) **Choice C is correct.** **(5.MD.5c)** Find each part first: Prism A is  $6 \times 2 \times 4 = 48$  cubic feet, and Prism B is  $3 \times 5 \times 4 = 60$  cubic feet. Because the parts do not overlap, add them:  $48 + 60 = 108$  cubic feet.
- 24) **Choice B is correct.** **(5.NBT.2)** To change 2.5 to 250, move the decimal two places right. That is multiplying by 100.
- 25) **Choice C is correct.** **(5.G.4)** One angle measures 112 degrees, which is greater than 90 degrees, making this an obtuse triangle.
- 26) **Choice D is correct.** **(5.NBT.3a)** 67 out of 100 squares shaded represents  $\frac{67}{100} = 0.67$ .
- 27) **Choice A is correct.** **(5.MD.4)** Multiply the three dimensions to count all cubes in the prism.  $6 \times 2 \times 3 = 36$  unit cubes.
- 28) **Choice D is correct.** **(5.NF.5b)** The area model shows the distributive property:  $3 \times 1\frac{2}{5} = 3 \times 1 + 3 \times \frac{2}{5} = 3 + \frac{6}{5} = 4\frac{1}{5}$ .
- 29) **Choice C is correct.** **(5.NBT.2)** The exponent tells us there are three factors of 10, so  $10^3 = 1,000$ . Then  $9 \times 1,000 = 9,000$ .
- 30) **The correct answer is 4.4.** **(5.NBT.4)** Hundredths digit is 8, which rounds the tenths up:  $4.3 \rightarrow 4.4$ .
- 31) **Choice C is correct.** **(5.G.1)** For (2, 6): x-coordinate 2 means 2 units right; y-coordinate 6 means 6 units up.
- 32) **Choice B is correct.** **(5.NF.1)**  $\text{LCM}(4,3) = 12$ .  $\frac{1}{4} = \frac{3}{12}$  and  $\frac{1}{3} = \frac{4}{12}$ .  $\frac{3}{12} + \frac{4}{12} = \frac{7}{12}$ .



**Dear Student,**

★ Geometry is about seeing and reasoning. Seven tests helped you practice angles, shapes, and measurement. That means you can look at a figure and understand what it is telling you. ★

◇ **Smart tip:** draw and label. When you sketch a shape, mark the sides, write the units, and label the important numbers. That makes your thinking clearer. ◇

**Geometry Tools**

- **Label:** write units and side lengths.
- **Use formulas:** area, perimeter, and volume.
- **Check reasonableness:** does the size make sense?
- **Draw:** a quick sketch helps every time.

**You are prepared** to reason carefully on test day. Keep that calm, clear thinking.

Email me at [reza@testinar.com](mailto:reza@testinar.com).

**Reza Nazari & Jay Daie**

Your Math Coaches (Think and Label)

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# PRACTICE TODAY. PERFORM TOMORROW.

Success in math starts with practice! This book provides the **practice, confidence, and skills** your child needs to excel on the Grade 5 Math test and beyond.

## KEY BENEFITS:



### TARGETED PRACTICE

Focus on the most important Grade 5 math skills.



### STANDARD-ALIGNED

All tests align with state standards for Grade 5.



### BUILD CONFIDENCE

Strengthen skills, reduce test anxiety, and boost confidence.



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Timed practice helps improve speed and accuracy.



### ACHIEVE SUCCESS

Develop strong test-taking skills and achieve your best score!

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✓ On-the-Go Practice

✓  
PRACTICE  
PREPARE  
SUCCEED



## STRONG SKILLS. BRIGHT FUTURE.

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