

9

Maryland MCAP

GRADE

6

MATH

PRACTICE TESTS

Standards-Aligned Review
Mixed Practice & Answer Key



9 PRINTED TESTS

Realistic practice to build confidence and mastery



DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



BUILD CONFIDENCE

Strengthen problem solving and test-taking skills



9 PRINTED TESTS
+2 ONLINE TESTS

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

PRACTICE TODAY.
SUCCEED TOMORROW.



PRACTICE



REVIEW



SUCCEED

9 Maryland MCAP Grade 6 Math Practice Tests

Standards-Aligned Chesapeake Review Precision for Maryland Comprehensive Assessment Program



Nine complete 40-question Grade 6 practice rounds for MCAP, built for Chesapeake review precision with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Maryland Math Explorer!

Nine focused rounds using Chesapeake review precision

This book gives you nine full Grade 6 practice tests for MCAP. Each round uses bay bridges, classroom charts, and careful explanation habits as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your Maryland Practice Promise

Connect the facts before solving: identify the relationship, choose the tool, and explain the answer.

Read

Plan

Check

How to Use This Book

A nine-session routine for Chesapeake review precision

1. **Work in order.** Take one 40-question test at a time in a quiet place.
2. **Preview the skills.** Scan the quick review pages before beginning the first round.
3. **Correct actively.** Retry missed items before reading the full explanation.
4. **Mark confidence.** Put a small star beside problems where your plan felt strong.
5. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.

Maryland review rhythm: Take one round, use the answer explanations as a bridge, and return with a cleaner plan.



What Is Inside?

Nine MCAP tests, 360 questions, and a full review path

Part	What You Will Practice
Tests 1–3	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 4–6	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Tests 7–9	Final stamina rounds for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

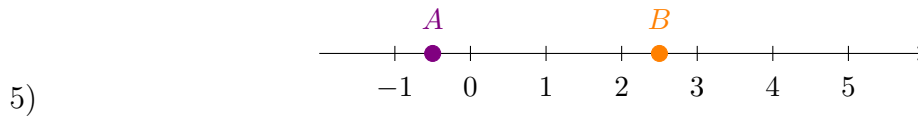
The tests are mixed on purpose. Chesapeake review precision means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!
For more practice
& answers

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What is the relationship between A and B ?

- A. $A < B$
 C. $A = B$
 B. $A > B$
 D. A is 3 units left of B

6) Which shows the correct first step when computing $\frac{3}{8} \div \frac{9}{10}$?

- A. $\frac{3}{8} \times \frac{9}{10}$
 C. $\frac{8}{3} \times \frac{9}{10}$
 B. $\frac{3}{8} - \frac{9}{10}$
 D. $\frac{3}{8} \times \frac{10}{9}$

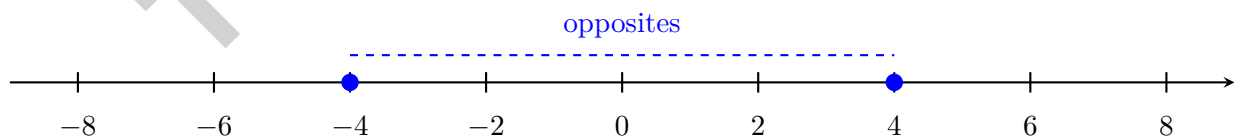
7) Divide $8,456 \div 56$ and determine the remainder.

- A. 151 R 0
 C. 151 R 0
 B. 150 R 56
 D. 152 R 24

8) Which shows $15 + 10$ factored using the GCF?

- A. $3(5 + 10)$
 C. $2(8 + 5)$
 B. $5(3 + 2)$
 D. $10(2 + 1)$

9)



Which pair of numbers are opposites?

- A. 3 and $\frac{1}{3}$
 C. 6 and 12
 B. -4 and 4
 D. -2 and -2



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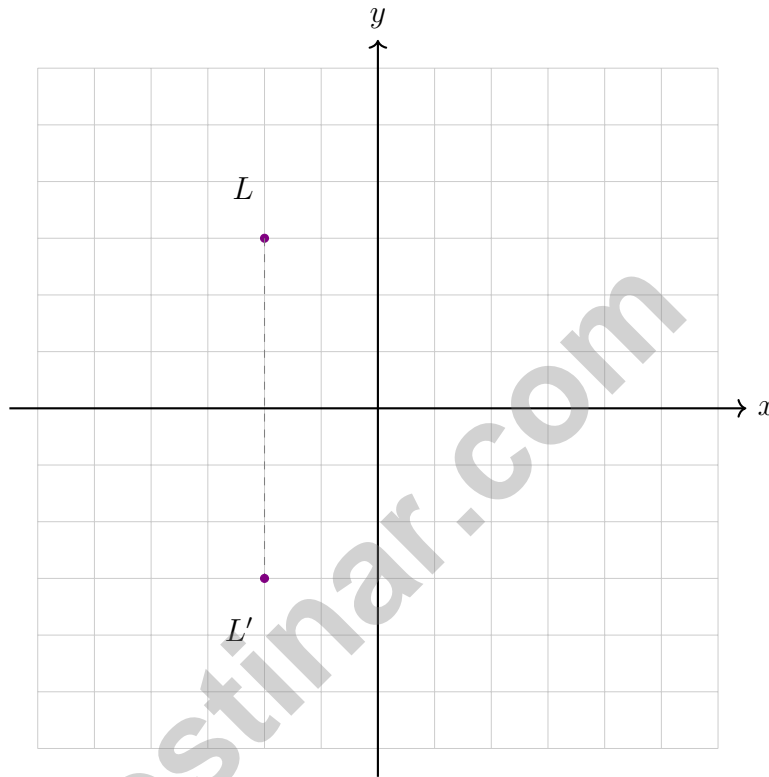
10) Which decimal is equivalent to $-\frac{2}{5}$?

A. -0.2

C. -0.4

B. -0.25

D. -0.5



11)

Points L and L' are shown. If L is reflected across the x -axis to create L' , what are the coordinates of L' ?

A. $(-2, 3)$

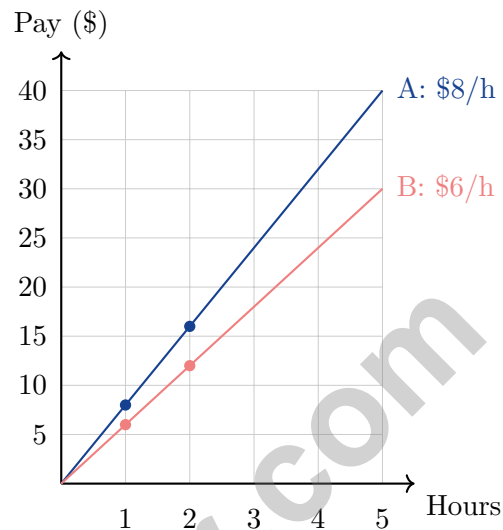
C. $(3, -2)$

B. $(-2, -3)$

D. $(2, 3)$



- 1) Two students compared their hourly pay rates. Student A earns \$8 per hour; Student B earns \$6 per hour. Which statement about the graph is true?



- A. Neither line passes through the origin
 B. Student A's line is steeper
 C. Neither relationship is proportional
 D. All of the above
- 2) A student's test score history: First test +5 points above average, second test -8 points below average, third test +12 points above average. What is the total relative to average?
- A. -11 points
 B. 9 points
 C. 25 points
 D. -3 points



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3) Simplify $7p + 2q - 3p + 5q$.

A. $10p + 3q$

C. $4p + 5q$

B. $7p + 7q$

D. $4p + 7q$

4) Solve for x : $x - 7 = 13$

A. $x = 6$

C. $x = 20$

B. $x = 13$

D. $x = 91$

5) Expand $12(1 + 4)$.

A. $12 + 48$

C. $1 + 4$

B. $12 + 4$

D. 60

6) A temperature change of -25 degrees can be represented by its absolute value as:

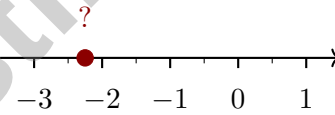
A. -25 degrees

C. A 25-degree decrease

B. 25 degrees

D. A 25-degree increase only

7) Which number line correctly shows the position of -2.25 ?



A. Halfway between -3 and -2

C. At -2

B. Halfway between -2.5 and -2

D. Halfway between -2 and -1



- 1) Two ratio tables are shown. One table maintains an equivalent ratio throughout, but the other does not. Which statement is correct?

Table A

Hours	Miles
2	100
4	200

Table B

Hours	Miles
3	150
6	350

- A. Only Table A maintains an equivalent ratio
 B. Only Table B maintains an equivalent ratio
 C. Both tables maintain equivalent ratios
 D. Neither table maintains an equivalent ratio
- 2) A coach records sprint times (in seconds) for 10 runners, creating this stem-and-leaf plot:

Stem	Leaf
11	2, 4
12	1, 3, 5, 7, 9
13	0, 2, 8

How many runners had times between 12.1 and 12.9 seconds?

- A. 3
 B. 4
 C. 5
 D. 6
- 3) What is the difference between the population and the sample?
- A. The population is smaller than the sample.
 B. The population is the entire group being studied; the sample is a subset that is surveyed.
 C. The population is the number of people; the sample is the data.
 D. There is no difference.

Maryland MCAP Practice Test Answer Keys

How to use this Maryland MCAP answer section with a Grade 6 student:

1. check the answer first, then write one quick reason the choice is correct
2. mark questions to try again, especially the skills that feel connected to Chesapeake review precision
3. rework the problem before reading the full explanation, using this reminder: Connect the facts before solving: identify the relationship, choose the tool, and explain the answer.

A calm Maryland correction routine turns every missed item into useful practice. Take one round, use the answer explanations as a bridge, and return with a cleaner plan.



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Maryland Practice Test Answers and Explanations

Review the nine printed MCAP tests with connected, precise, and ready for the next review habits.

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** **(6.RP.A.3)** The ratio is 1 yard = 3 feet. Multiply both sides by 3: 3 yards = 9 feet.
- 2) **The correct answer is 40 miles per hour.** **(6.RP.A.1)** Divide distance by time: $360 \div 9 = 40$ miles per hour.
- 3) **Choice A is correct.** **(6.NS.B.3)** Subtract: $\$34.50 - \$7.25 = \$27.25$.
- 4) **Choice D is correct.** **(6.NS.B.4)** Looking at the table, the first number that appears in both rows is 60. This is the least common multiple.
- 5) **Choice A is correct.** **(6.NS.C.7)** $A = -0.5$ and $B = 2.5$. Since $-0.5 < 2.5$, we have $A < B$.
- 6) **Choice D is correct.** **(6.NS.A.1)** Keep the first fraction, invert the second, and multiply.
- 7) **Choice C is correct.** **(6.NS.B.2)** $8,456 \div 56 = 151$ with no remainder. Check: $56 \times 151 = 8,456$.
- 8) **Choice B is correct.** **(6.NS.B.4)** GCF of 15 and 10 is 5. Thus $15 + 10 = 5(3 + 2)$. Choice A uses factor 3 (not the greatest); Choice C uses 2 (not a common factor of both); Choice D uses 10 but yields 30, not 25.
- 9) **Choice B is correct.** **(6.SP.B.4)** Opposites are numbers equidistant from zero on opposite sides of the number line. -4 and 4 are opposites.
- 10) **Choice C is correct.** **(6.SP.B.4)** $\frac{2}{5} = \frac{4}{10} = 0.4$, so $-\frac{2}{5} = -0.4$.
- 11) **Choice A is correct.** **(6.NS.C.8)** From the graph, point L (upper point) is located at $(-2, 3)$. Its reflection L' across the x -axis is at $(-2, -3)$.
- 12) **Choice B is correct.** **(6.NS.C.8)** The bottom side goes from $(0, 0)$ to $(4, 0)$: $|4 - 0| = 4$ units.
- 13) **Choice A is correct.** **(6.NS.B.3)** Starting balance: 250. Withdrawal is -100 . So $250 + (-100) = 150$.
- 14) **Choice B is correct.** **(6.EE.B.8)** $x \geq 4$ includes 4 (closed circle) and all numbers greater than 4 (arrow points right).
- 15) **Choice B is correct.** **(6.EE.C.9)** Each row shows cost = $15 \times$ number of tickets. For example, 1 ticket costs \$15; 5 tickets cost $\$75 = 15 \times 5$.
- 16) **Choice D is correct.** **(6.G.A.1)** $75 = \frac{1}{2} \times 15 \times h \Rightarrow h = 10$ cm.
- 17) **Choice D is correct.** **(6.G.A.2)** $28 = 3.5 \times 2 \times h = 7 \times h$, so $h = 4$ ft.
- 18) **Choice D is correct.** **(6.G.A.4)** $SA = 2LW + 2LH + 2WH = 2(5)(5) + 2(5)(15) + 2(5)(15) = 50 + 150 + 150 = 350$ cm².
- 19) **Choice A is correct.** **(6.NS.C.8)** The x -coordinate stays -3 . The y -coordinate changes from -4 to 0 , an increase of 4 units upward.
- 20) **The correct answer is 30 mph.** **(6.RP.A.2)** $45 \div \frac{3}{2} = 45 \times \frac{2}{3} = 30$ miles per hour.
- 21) **The correct answer is 4.** **(6.RP.A.3)** Ratio 2 : 5 with flour = 10 cups: each part is $10 \div 5 = 2$ cups. Sugar: $2 \times 2 = 4$ cups.
- 22) **The correct answer is Housing and Food are correctly calculated.** **(6.EE.C.9)** A: Housing is $40\% \times 2500 = \$1000$. Correct. B: Food is $24\% \times 2500 = \$600$. Correct. C: Utilities is $10\% \times 2500 = \$250$, not \$200. Incorrect. D: Transportation is $12\% \times 2500 = \$300$, not \$250. Incorrect. E: Savings is $14\% \times 2500 = \$350$, not \$400. Incorrect.
- 23) **Choice D is correct.** **(6.SP.A.2)** This is statistical because team members have different heights and you must collect data from multiple sources. The number of people or a team's fixed size does not prevent variability—different players still have different heights.
- 24) **Choice A is correct.** **(6.SP.A.3)** IQR measures spread in the middle 50%. Set X's IQR of 15 is larger than Set Y's IQR of 8, indicating Set X has greater spread in the middle half.
- 25) **Choice C is correct.** **(6.NS.A.1)** 40% of 250 is $0.40 \times 250 = 100$ students.
- 26) **The correct answer is 56.** **(6.RP.A.3)** Multiply the drawing length by the scale: $7 \text{ cm} \times 8 \text{ km/cm} = 56 \text{ km}$.
- 27) **Choice B is correct.** **(6.EE.A.3)** Substitute: $7 + 9 = 16$.
- 28) **Choice A is correct.** **(6.EE.A.3)** Combine like terms: $(6a - 2a) + (5b + 3b) = 4a + 8b$.



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For more practice
& answers

Hi, Strong Climber!

◇ You climbed all 9 tests. One step at a time. That takes patience and grit. The view from the top is amazing because you earned it! ◇

★ **Mountain guides say:** steady steps win the climb. You climbed steady. You stayed strong. ★

Climber's Skills

- **Strong Steps:** You move forward, problem by problem.
- **Steady Pace:** You don't rush. You don't stop.
- **Map Skills:** You read questions carefully.
- **Top of the Mountain:** You can finish a long test.

Guide's tip: on test day, take small breaths between problems. One foot, then the next. You'll reach the top!

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

Jay Daie

Your Math Trail Guide

PRACTICE MORE. ACHIEVE MORE.

This **Grade 6 Math Practice Tests** book is designed to help students strengthen their math skills, master important concepts, and build the confidence they need to excel on any test.

With 9 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, develop problem-solving abilities, and reach their full potential.

Perfect for classroom use, homework, test preparation, and extra practice at home.

PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Building Confidence

★ PRACTICE TODAY.
SUCCEED TOMORROW.

WHAT STUDENTS WILL 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 math concepts aligned with standards.



Test Confidence

Get familiar with test formats and improve accuracy.



Achieve Success

Build confidence and perform your best on test day.

TOPICS COVERED

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



2 ONLINE TESTS

Extra online practice to reinforce learning and build confidence.

MORE PRACTICE. GREATER RESULTS.

Give your child the tools needed to develop strong math skills, confidence, and a positive attitude toward learning.



9 PRINTED
PRACTICE TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS