

9

Maryland MCAP

GRADE 3 MATH PRACTICE TESTS

COMPLETE STANDARDS REVIEW WITH SKILL PRACTICE,
WORD PROBLEMS, AND ANSWER KEY



10



10

FOR THE COMPREHENSIVE ASSESSMENT PROGRAM

9 Maryland MCAP Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine complete 30-question Grade 3 practice rounds with operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

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Maryland, Start Your Nine-Round Math Quest

A clever Grade 3 run from first try to confident finish

This book gives you nine chances to practice like a thoughtful Maryland MCAP test taker. Each round mixes numbers, shapes, fractions, data, measurement, and word problems so your brain learns to switch skills calmly.

Maryland has bay bridges, harbor maps, crab boats, rolling fields, and strong classroom questions, where careful steps matter. Strong math follows that same idea: notice what the question asks, choose a useful tool, show the work, and solve before moving on.

Your Maryland Math Promise

I will slow down enough to understand the question. I will show the work that helps me think. I will use mistakes as practice fuel, then try again with a sharper plan.

Nine rounds is not about rushing. It is about building a math habit that stays strong.

How to Use This Book

A nine-session routine for clear Maryland review

1. **Warm up first.** Read the quick review pages and remind yourself of the big ideas.
2. **Take one test at a time.** Work without rushing. Circle words, sketch models, and label units.
3. **Check the answer key.** Mark correct answers, then star questions that need another look.
4. **Read explanations after trying again.** The explanation works best after your brain has wrestled with the problem.
5. **Use the growth log.** Track the score, one strong habit, and one skill to practice next.

Good rhythm: Test one day, review the next day, then take the next test when your corrections feel clear. In Maryland, that steady routine turns nine tests into one organized prep plan.



What Is Inside the Nine Tests?

Mixed Grade 3 practice with MCAP support

Part	What You Practice
Nine full tests	30 mixed Grade 3 questions in each round
Question styles	Multiple choice, select-all, and open-ended work spaces
Math topics	Operations, patterns, rounding, fractions, measurement, data, area, perimeter, and shapes
Answer support	Compact answer keys plus explanations for every item
Standards help	A Maryland standards reference and standard-code boxes in explanations

Why mixed practice helps: Real tests do not announce the next skill. These nine rounds help students recognize the math move they need, even when the topic changes from question to question.



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& answers

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1) A tiled rectangle shows $2 \times (8 + 4)$. What is the combined area of the two smaller rectangles?

A. 24

C. 18

B. 20

D. 16

2) Noah has 28 flowers. He puts them equally into 4 vases. How many flowers are in each vase?

A. 6

C. 24

B. 32

D. 7

3) What is 2×7 ? Using the repeated addition strategy, which shows this product?

A. $7 + 7 + 7$

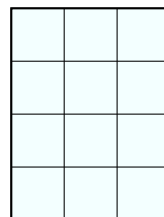
C. $2 + 7$

B. 7×7

D. $7 + 7$

4) Complete $\frac{2}{4} = \frac{?}{8}$.

5) Ben counts unit squares to find the area of a shape. He counts 12 unit squares. What is the area?



A. 6 square units

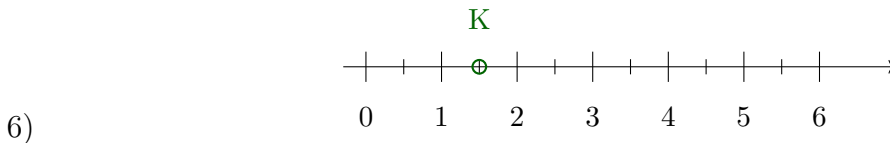
C. 12 square units

B. 10 square units

D. 24 square units



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The number line from 0 to 6 is divided into halves. Point K is at 1.5. Write point K as an improper fraction.

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

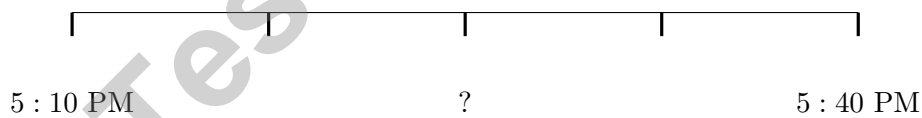
7) Mia baked 30 cookies and put them into 5 bags. Each bag has the same number of cookies. How many cookies are in each bag?

- A. 5
 C. 7
 B. 8
 D. 6

8) What is 7×90 ?

- A. 63 (forgot the zero)
 C. 79 (added the digits)
 B. 6300 (added two zeros)
 D. 630

9) A number line shows times. What is the time at the middle mark?



- A. 5 : 20 PM
 C. 5 : 30 PM
 B. 5 : 25 PM
 D. 5 : 35 PM



10) Mia has some stickers. She gives them equally to 3 friends. Each friend gets 6 stickers. Which equation can be used to find the total number of stickers Mia gives away?

A. $18 \div 3 = \square$

C. $\square - 3 = 6$

B. $3 + 6 = \square$

D. $\square \div 3 = 6$

11) Which statement is true about the products of even and odd numbers?

 A. Even \times odd is always odd C. Even \times odd is always even B. Even \times even is always odd D. Odd \times odd is always even

12) Kai saves 15 dollars from his allowance. His grandma gives him 20 dollars. He spends 18 dollars on a book. How much money does Kai have left?

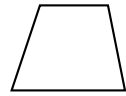
A. 12

C. 17

B. 15

D. 23

13) Which symbol makes this true? $\frac{4}{4}$ _____ $\frac{4}{2}$

 A. $<$ C. $=$ B. $>$ D. \neq 

Shape R

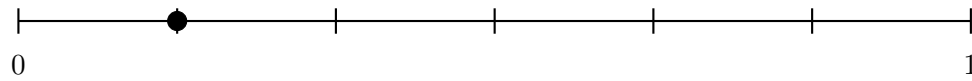
14)

Shape R is a quadrilateral with one pair of parallel sides. What is Shape R called?

 A. Square C. Trapezoid B. Rectangle D. Rhombus

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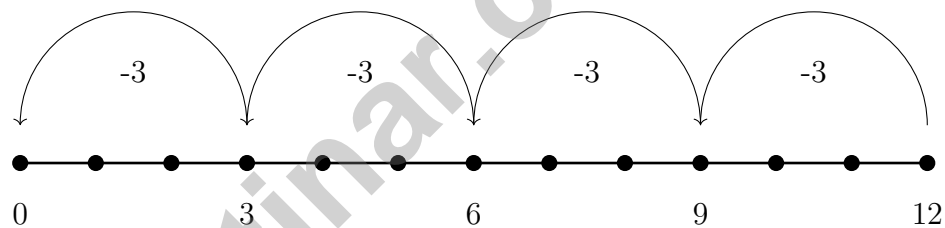
- 1) A number line from 0 to 1 has 6 equal parts. The dot shown is closest to which fraction?



- A. $\frac{1}{6}$
 C. $\frac{1}{5}$
 B. $\frac{2}{6}$
 D. $\frac{4}{6}$
- 2) Olivia buys 4 bags of candy with 8 pieces in each bag. She eats 12 pieces. How many pieces of candy does she have left?

- A. 20
 C. 32
 B. 25
 D. 35

- 3) Look at the number line. It shows repeated subtraction of 3.

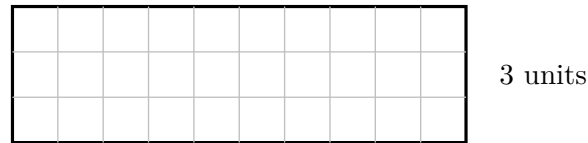


How many times do you subtract 3 from 12 to reach 0?

- A. 2 times
 C. 5 times
 B. 3 times
 D. 4 times



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4)

10 units

Count the unit squares. What is the area of this rectangle?

- A. 13 sq units C. 25 sq units
 B. 30 sq units D. 40 sq units

5) What is $40 \div 5$?

- A. 7 C. 9
 B. 10 D. 8

6) A bar graph shows the number of books read by students. If each unit on the scale represents 5 books, and a bar's height is 4 units, how many books does that bar represent?

- A. 9 C. 20
 B. 15 D. 25

7) A unit square measures 1 foot by 1 foot. Sam needs to cover a floor that is 5 feet long and 4 feet wide. How many unit squares (tiles) does he need?

A large empty rectangular box with a thin black border, intended for the student to write their answer to question 7.



1) Which product is greater, 7×8 or 8×7 ?

A. 7×8 is greater

C. They are equal

B. 8×7 is greater

D. You cannot tell without multiplying

2) Sam works 5 hours each day at the library. After 7 days, how many hours has he worked?

A. 45

C. 30

B. 40

D. 35

3) Write $\frac{5}{4}$ as a mixed number.

4) $\frac{1}{2} = \frac{?}{4}$. What is the missing numerator?

A. 1

C. 3

B. 2

D. 4

5) A bar graph shows fish in aquariums. The goldfish bar is 3 units tall, and the betta bar is 2 units tall. The scale is 5 fish per unit. How many goldfish are in the aquarium?

A. 10

C. 20

B. 15

D. 25



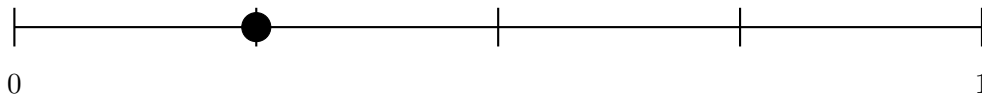
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6) Look at even numbers: 2, 4, 6, 8, 10, 12, 14.

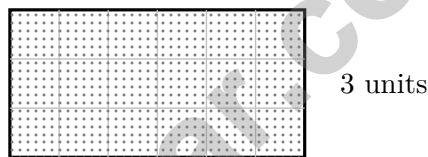
What is the rule for this pattern?

- A. Add 1 each time C. Add 3 each time
 B. Skip count by 4 D. Add 2 each time

7) On a number line from 0 to 1 split into 4 equal parts, the distance from 0 to $\frac{1}{4}$ is what part of the whole line?



- A. $\frac{1}{4}$ of the line C. $\frac{3}{4}$ of the line
 B. $\frac{2}{4}$ of the line D. The whole line

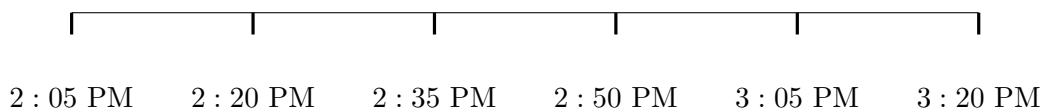


8)

Use multiplication to find the area of the shaded rectangle.

- A. 9 sq units C. 18 sq units
 B. 24 sq units D. 36 sq units

9) Look at the number line showing elapsed time.



What is the elapsed time from 2 : 35 PM to 3 : 05 PM?

- A. 25 minutes C. 35 minutes
 B. 30 minutes D. 45 minutes

Practice Test Answer Keys

How to use this section with a Grade 3 student:

1. check the answer first
2. mark questions to try again
3. rework the problem before reading the full explanation

A calm correction routine turns every missed item into useful practice.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** **(3.MD.C.7)** $2 \times (8 + 4) = 2 \times 12 = 24$ or $(2 \times 8) + (2 \times 4) = 16 + 8 = 24$.
- 2) **Choice D is correct.** **(3.OA.A.2)** $28 \div 4 = 7$. The 28 flowers are shared equally among 4 vases.
- 3) **Choice D is correct.** **(3.OA.C.7)** 2×7 means 2 groups of 7, which is $7 + 7 = 14$.
- 4) **The correct answer is 4.** **(3.NF.A.3)** The numerator doubles from 2 to 4.
- 5) **Choice C is correct.** **(3.MD.C.6)** If a shape covers 12 unit squares, the area is 12 square units.
- 6) **Choice B is correct.** **(3.NF.A.2)** Point K at 1.5 is the third half-mark: $\frac{3}{2} = 1.5$.
- 7) **Choice D is correct.** **(3.OA.B.6)** $30 \div 5 = \square$ means $\square \times 5 = 30$. Since $6 \times 5 = 30$, there are 6 cookies in each bag.
- 8) **Choice D is correct.** **(3.NBT.A.3)** Multiply $7 \times 9 = 63$, then multiply by 10 to get 630: $7 \times 90 = (7 \times 9) \times 10 = 63 \times 10 = 630$.
- 9) **Choice B is correct.** **(3.MD.A.1)** The interval from 5 : 10 to 5 : 40 is 30 minutes. The middle of 30 minutes is 15 minutes. So 5 : 10 + 15 = 5 : 25 PM.
- 10) **Choice D is correct.** **(3.OA.A.4)** The total number of stickers is unknown. Since the stickers are shared equally among 3 friends and each friend gets 6, the equation is $\square \div 3 = 6$.
- 11) **Choice C is correct.** **(3.OA.D.9)** An even number times any other whole number is always even, because the result is a multiple of 2.
- 12) **Choice C is correct.** **(3.OA.D.8)** Step 1: Total money: $15 + 20 = 35$ dollars. Step 2: Subtract spent: $35 - 18 = 17$ dollars left.
- 13) **Choice A is correct.** **(3.NF.A.3)** Four fourths equals 1. Four halves equals 2. Since $1 < 2$, we have $\frac{4}{4} < \frac{4}{2}$.
- 14) **Choice C is correct.** **(3.G.A.1)** A trapezoid has exactly one pair of parallel sides. The other quadrilaterals shown have two pairs of parallel sides or other properties.
- 15) **Choices A and C are correct.** **(3.NBT.A.2)** Check each: A is $600 - 300 = 300$, B is $450 - 140 = 310$, C is $725 - 425 = 300$, D is $512 - 211 = 301$, and E is $800 - 450 = 350$. The two differences that equal 300 are A and C.
- 16) **Choice B is correct.** **(3.NF.A.1)** Splitting from 0 to 1 into three equal parts gives $\frac{1}{3}$ for each.
- 17) **Choice D is correct.** **(3.OA.A.1)** 6 benches with 5 people each means 6 groups of 5. So $6 \times 5 = 30$ people.
- 18) **Choice A is correct.** **(3.NF.A.3)** The bars show the same shaded amount. $\frac{2}{8}$ and $\frac{1}{4}$ are equivalent.
- 19) **Choice B is correct.** **(3.MD.D.8)** Playground: $6 \times 5 = 30$ tiles. Real-world context.
- 20) **Choice D is correct.** **(3.NF.A.2)** $\frac{4}{4}$ means all 4 fourths. That is one whole, so the distance from 0 is 1.
- 21) **The correct answer is $\frac{3}{4}$.** **(3.G.A.2)** Three shaded parts out of 4 equal parts is $\frac{3}{4}$.
- 22) **Choice C is correct.** **(3.NBT.A.1)** The ones digit is 8. Since $8 \geq 5$, round up: 608 rounds to 610.
- 23) **Choice D is correct.** **(3.NF.A.2)** $\frac{3}{6} = \frac{1}{2}$. Both mark the halfway point on a number line.
- 24) **Choice C is correct.** **(3.NF.A.1)** Picture C shows a rectangle divided into 3 equal parts with 1 part shaded, which is $\frac{1}{3}$.
- 25) **Choice C is correct.** **(3.MD.C.5)** Count the rows: 3 rows. Count across: 9 unit squares per row. Total: $9 + 9 + 9 = 27$ square units cover the carpet.
- 26) **Choice B is correct.** **(3.G.A.2)** Any whole number n equals $\frac{n}{1}$. So $7 = \frac{7}{1}$.
- 27) **Choice C is correct.** **(3.MD.D.8)** Area = length \times width = $7 \times 3 = 21$ square inches.
- 28) **Choice C is correct.** **(3.MD.C.6)** $7 \times 6 = 42$ unit squares.
- 29) **The correct answer is about 5 cups.** **(3.MD.A.2)** Divide: $1000 \div 200 = 5$ cups. Estimation practice aligned to 3.MD.A.2.
- 30) **Choice C is correct.** **(3.MD.B.3)** Apples: $2 \times 10 = 20$. Oranges: $3 \times 10 = 30$. Total: $20 + 30 = 50$.

Practice Test 2 Answers and Explanations



Ahoy, Math Sailor!

◇ You sailed through 9 full tests. Some waters were calm. Some waters were rough. You kept your boat steady the whole way. ◇

★ **Captain's truth:** good sailors stay calm. They use the wind. They check the map. You did all those things on every test. ★

Sailor's Skills

- **Steady Hand:** You stay calm even when problems are tricky.
- **Map Skills:** You read each problem carefully.
- **Brave Spirit:** You believe in yourself.
- **Safe Harbor:** You finish what you start.

Captain's tip: on test day, sail steady. Trust the map you built through 9 practice tests. You will reach safe harbor!

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

Jay Daie

Your Math Captain

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Give your child the tools they need to excel in **Grade 3 Math!** This book includes **9 complete practice tests** that follow grade-level standards and help students build confidence, sharpen skills, and achieve success.

9
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