

# 9

# Rhode Island RICAS

## GRADE 3 MATH PRACTICE TESTS

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



10

FOR THE COMPREHENSIVE ASSESSMENT PROGRAM

# 9 Rhode Island RICAS 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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# Rhode Island, Start Your Nine-Round Math Map

A steady Grade 3 route from first try to confident finish

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

Rhode Island has bay islands, harbor paths, shoreline maps, small-town streets, and focused classrooms, where careful steps matter. Strong math follows that same idea: check what the question asks, choose a useful tool, show the work, and explain before moving on.

## Your Rhode Island 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 Rhode Island 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 Rhode Island, that steady routine turns nine tests into one organized prep plan.



# What Is Inside the Nine Tests?

Mixed Grade 3 practice with RICAS 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 Rhode Island 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 baker made 567 cookies. His scale is only accurate to the nearest 10. What will the scale show?

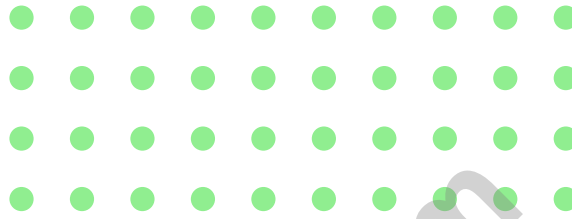
A. 560

C. 570

B. 567

D. 600

2) There are 4 rows of apples. Each row has 10 apples. How many apples are there?



$$4 \times 10 = ?$$

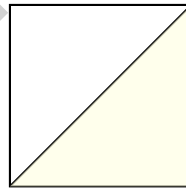
A. 14

C. 410

B. 401

D. 40

3) A square is divided into 2 equal parts by a diagonal line. What fraction is one part?



A.  $\frac{1}{3}$

C.  $\frac{1}{4}$

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

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



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4) Which fraction is NOT equivalent to  $\frac{1}{3}$ ?

- A.  $\frac{2}{6}$   
 B.  $\frac{1}{2}$

- C.  $\frac{2}{8}$   
 D. None

5) What fraction is the third tick on a number line split into 6 equal parts?



6) Which situation can be represented by  $12 \div 3$ ?

- A. 12 multiply by 3  
 B. 3 subtract from 12  
 C. How many groups of 3 make 12

- D. 12 items shared equally among 3 groups

7) Look at the rectangle. It is divided into equal parts, and one part is shaded.



What fraction is shaded?

- A.  $\frac{1}{4}$   
 B.  $\frac{1}{3}$

- C.  $\frac{2}{4}$   
 D.  $\frac{1}{5}$



8) Lily has 20 stickers. She puts them in 4 equal groups. How many stickers are in each group?

A. 5

C. 6

B. 4

D. 24

○ ○ ○

○ ○ ○

○ ○ ○

○ ○ ○

9)

What multiplication equation matches this picture?

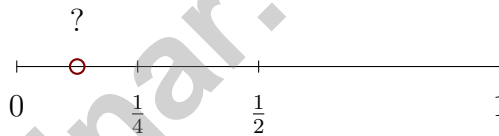
A.  $3 \times 5 = 15$

C.  $3 + 4 = 7$

B.  $7 \times 3 = 21$

D.  $4 \times 3 = 12$

10)



The red dot is between 0 and  $\frac{1}{4}$ . What fraction could it be?

A.  $\frac{1}{8}$

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

B.  $\frac{1}{4}$

D.  $\frac{2}{4}$

11) A picture graph shows pencils. Each pencil symbol means 5 pencils. Maya has 4 symbols. How many pencils does Maya have?

A. 9

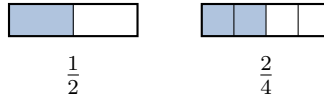
C. 20

B. 15

D. 25



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1)

Are  $\frac{1}{2}$  and  $\frac{2}{4}$  equivalent? Explain using the bars.

- A. Yes, they cover the same amount       C. No,  $\frac{2}{4}$  is larger  
 B. No,  $\frac{1}{2}$  is larger       D. They cannot be compared

2) A T-shaped figure is divided by dashed lines into three rectangles. The given areas are 10 sq units, 6 sq units, and 6 sq units. What is the total area?

- A. 10 sq units       C. 16 sq units  
 B. 22 sq units       D. 360 sq units

3 hundreds	5 tens	4 ones
------------	--------	--------

3)

Which number does this place-value chart show?

- A. 354       C. 453  
 B. 345       D. 534

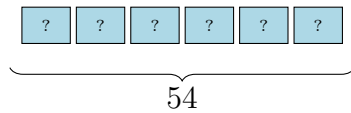
4) A rectangle with dimensions  $10 \times 9$  is split by a vertical line into two parts. If one part is  $10 \times 4$ , what is the correct distributive equation?

- A.  $10 \times 9 = 10 \times (4 + 5) = (10 \times 4) + (10 \times 5) = 40 + 50 = 90$        C.  $4 + 5 = 9$   
 B.  $10 + 9 = 19$        D.  $10 \times 4 = 40$  only



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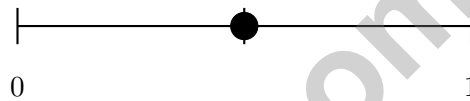
5) Look at this bar model. It shows 6 equal parts. The total is 54.



$$6 \times \square = 54$$

- |                                |                                |
|--------------------------------|--------------------------------|
| <input type="checkbox"/> A. 8  | <input type="checkbox"/> C. 10 |
| <input type="checkbox"/> B. 11 | <input type="checkbox"/> D. 9  |

6) Two number lines show the same interval from 0 to 1. One is divided into 2 parts, the other into 4 parts. Which statement is true?



Line A



Line B

- |   |   |
|---|---|
| <input type="checkbox"/> A. Line A shows $\frac{1}{4}$ and Line B shows $\frac{2}{4}$ | <input type="checkbox"/> C. Line A shows $\frac{1}{2}$ and Line B shows $\frac{4}{4}$ |
| <input type="checkbox"/> B. Both lines show the same point: halfway from 0 to 1       | <input type="checkbox"/> D. Line B shows a fraction larger than Line A                |

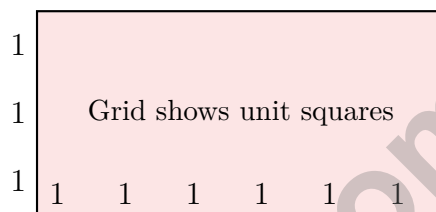


1) Which fact family includes the division  $56 \div 8 = 7$ ?

- A.  $6 \times 8 = 48$ ,  $48 \div 6 = 8$ ,  $48 \div 8 = 6$      C.  $8 \times 8 = 64$ ,  $64 \div 8 = 8$   
 B.  $7 \times 7 = 49$ ,  $49 \div 7 = 7$      D.  $7 \times 8 = 56$ ,  $56 \div 7 = 8$ ,  $56 \div 8 = 7$

2) Round 650 to the nearest 100. (This is a special case where tens digit is 5.)

- A. 600     C. 700  
 B. 650     D. 750



The rectangle above shows 6 unit squares across and 3 unit squares down. Which multiplication statement represents this rectangle's area?

- A.  $6 + 3 = 9$      C.  $3 + 3 + 3 + 3 + 3 + 3 = 18$   
 B.  $6 \times 3 = 18$      D.  $9 \times 2 = 18$
- 4) A pitcher contains 800 mL of lemonade. Ben pours 200 mL into glasses and 150 mL into a bowl. How many milliliters of lemonade remain?



5) Which number sentence represents “20 items divided equally among 4 groups”?

A.  $20 \div 4$

C.  $4 + 20$

B.  $4 \times 20$

D.  $20 - 4$

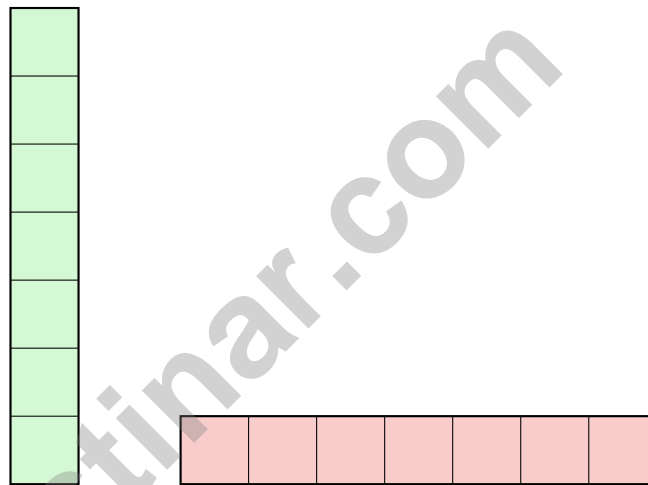
6) Lily has 3 jars of marbles. Each jar has 8 marbles. How many marbles does Lily have altogether?

A. 5

C. 25

B. 11

D. 24



7)

P

Q

Shape P is 1 unit by 7 units. Shape Q is 7 units by 1 unit. How do their areas compare?

A. P is bigger

C. They are equal

B. Q is bigger

D. Cannot be determined



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## 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 C is correct.** **(3.NBT.A.1)** For 567: ones digit is  $7 \geq 5$ , so it rounds up to the nearest 10, which is 570.
- 2) **Choice D is correct.** **(3.NBT.A.3)** The array shows 4 rows with 10 apples each:  $4 \times 10 = 40$  apples.
- 3) **Choice D is correct.** **(3.G.A.2)** A diagonal line divides a square into 2 equal triangular parts, each  $\frac{1}{2}$ .
- 4) **Choice B is correct.** **(3.NF.A.3)**  $\frac{1}{3} = \frac{2}{6}$  and  $\frac{2}{8} = \frac{1}{4}$ . But  $\frac{1}{2}$  is not equivalent to  $\frac{1}{3}$ .
- 5) **The correct answer is  $\frac{3}{6}$ .** **(3.NF.A.2)** The third tick out of 6 equal parts is  $\frac{3}{6}$ .
- 6) **Choice D is correct.** **(3.OA.A.2)**  $12 \div 3$  asks “how many in each group when 12 items are shared equally among 3 groups?” Each group gets 4 items.
- 7) **Choice A is correct.** **(3.NF.A.1)** The rectangle is divided into 4 equal parts. Even though the shading might look uneven, one complete part is shaded, which is  $\frac{1}{4}$ .
- 8) **Choice A is correct.** **(3.OA.B.6)**  $20 \div 4 = \square$  means  $\square \times 4 = 20$ . Since  $5 \times 4 = 20$ , there are 5 stickers in each group. Option B (confuses divisor with quotient); Option D adds instead of divides.
- 9) **Choice D is correct.** **(3.OA.A.1)** The picture shows 4 rows with 3 circles in each row. This is 4 groups of 3, so  $4 \times 3 = 12$ .
- 10) **Choice A is correct.** **(3.NF.A.3)** One eighth is half of one fourth. The dot is halfway between 0 and  $\frac{1}{4}$ , so it is  $\frac{1}{8}$ .
- 11) **Choice C is correct.** **(3.MD.B.3)** Multiply:  $4 \times 5 = 20$  pencils.
- 12) **Choice B is correct.** **(3.G.A.2)** Any whole number can be written as that number over 1. So  $3 = \frac{3}{1}$ . (D) equals 1, not 3.
- 13) **Choice D is correct.** **(3.OA.D.9)** The marks show 0, 10, 20, 30, 40, 50. Each jump is 10 units.
- 14) **Choice C is correct.** **(3.NF.A.2)**  $\frac{4}{6}$  means count 4 copies of unit  $\frac{1}{6}$  starting at 0. The 4th tick mark is  $\frac{4}{6}$ .
- 15) **Choices A and C are correct.** **(3.OA.C.7)**  $4 \times 5 = 20$  is right.  $6 \times 6 = 36$  not 35.  $9 \times 7 = 63$  is right.  $5 \times 7 = 35$  not 36.  $3 \times 9 = 27$  not 28.
- 16) **Choice C is correct.** **(3.MD.C.6)** 4 units wide  $\times$  6 units tall = 24 unit squares.
- 17) **Choice A is correct.** **(3.MD.C.7)** Area =  $8 \times 1 = 8$  square yards.
- 18) **Choice B is correct.** **(3.MD.C.6)** Rectangle A is  $5 \times 1 = 5$  unit squares. Rectangle B is  $3 \times 2 = 6$  unit squares.
- 19) **Choice D is correct.** **(3.OA.A.4)** In this fact family,  $24 \div 3 = 8$ . This is the division equation that matches the multiplication  $3 \times 8 = 24$ .
- 20) **Choice B is correct.** **(3.MD.A.1)** At 3 : 27, the minute hand points to 27 minutes, just past the 5. The hour hand is between 3 and 4, just past 3. Clock 2 shows this accurately.
- 21) **Choice A is correct.** **(3.MD.C.5)**  $5 \times 5 = 25$  unit square tiles.
- 22) **Choice C is correct.** **(3.MD.A.2)** Multiply:  $400 \times 2 = 800$  g.
- 23) **Choice C is correct.** **(3.OA.D.8)** Step 1: Cost of items:  $2 \times 9 = 18$  dollars. Step 2: Money left:  $50 - 18 = 32$  dollars. (Choice D is unreasonable—fails the check; choice B from rounding.)
- 24) **The correct answer is  $\frac{1}{2}$ .** **(3.NF.A.2)**  $\frac{2}{4} = \frac{3}{6} = \frac{1}{2}$ .
- 25) **Choice B is correct.** **(3.MD.C.5)** Composite shapes are found by dividing them into non-overlapping rectangles, finding each area, and adding them together. Choice A fails because an L-shape is not a single rectangle. Choices C and D are incorrect methods.
- 26) **Choice D is correct.** **(3.MD.D.8)** Area = length  $\times$  width =  $6 \times 3 = 18$  square meters.
- 27) **Choice B is correct.** **(3.MD.B.4)** At most  $2\frac{1}{2}$  includes weights of 2,  $2\frac{1}{4}$ , and  $2\frac{1}{2}$  ounces. The plot has  $1 + 3 + 0 = 4$  X's at those values.
- 28) **Choice B is correct.** **(3.NF.A.1)** Five ticks (including 0 and 1) create four equal segments. Each segment is  $\frac{1}{4}$ .
- 29) **The correct answer is 55 square units.** **(3.MD.C.7)**  $7 + 4 = 11$ , and  $5 \times 11 = 55$  square units.
- 30) **Choice C is correct.** **(3.MD.C.5)** Multiply length by width:  $10 \times 8 = 80$  square feet.



Lab Notes for a Young Scientist

## Hi, Curious Scientist!

◇ 9 tests. So many experiments! You tested ideas. You watched what worked. You learned a lot. That's how scientists work—and how you work! ◇

★ **Scientists know:** mistakes are facts, not failures. Every problem you missed taught you something. You used those facts to do better next time. ★

### Lab Results

- **Hypothesis:** CONFIRMED! Practice makes you better.
- **Method:** STRONG! You try, watch, and adjust.
- **Data:** CAREFUL! You read and copy numbers right.
- **Conclusion:** READY! You can do this test.

**Scientist tip:** on test day, stay curious. Ask, "What is this asking?" Then experiment with your math tools. You will find the answer!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Scientist

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Aligned to Standards



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