

7

Pennsylvania

PSSA

Grade 3 MATH

PRACTICE TESTS

Standards-Aligned Practice with
Review, Answer Keys, and Explanations



7 Full-Length
Practice Tests



Standards-Aligned
Math Practice



Detailed Answer Keys
and Explanations



Build Confidence.
Achieve Success.

PREPARE
PRACTICE
SUCCEED



$$\begin{array}{r} 248 \\ + 157 \\ \hline 405 \end{array}$$



$4 \times 6 = 24$



7 Pennsylvania PSSA Grade 3 Math Practice Tests

Standards-Aligned Practice with Review, Answer Keys, and Explanations



Seven complete 30-question practice trails for Grade 3 math:
operations, fractions, measurement, data, area, shapes, answer keys,
and clear explanations for every item.

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Welcome to the Seven Math Trails

Seven full tests, seven fresh chances, and one braver Grade 3 thinker



Read the trail. Mark the clues. Solve with care.

To the Grade 3 Math Trail Leader

This book gives you seven complete practice trails for the Pennsylvania PSSA. Each trail is a full 30-question test, so students can practice accuracy, stamina, and clear explanations over time.

Pennsylvania has mountain ridges, old rail lines, farm markets, city blocks, and careful schoolwork, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and connect facts like pieces of a route.

Scout

Find what the problem is asking before you calculate.

Solve

Pick an equation, model, array, graph, or number line.

Prove

Check the answer and explain the thinking clearly.

Seven-trail promise: I will work with patience, use my scratch space wisely, and let every correction make my next test stronger.

How to Use This Book

A seven-trail routine for steady Grade 3 growth

Use one practice trail at a time. The goal is not to rush through more pages. The goal is to finish, check, repair, and bring a stronger habit to the next test. For Pennsylvania students, each trail moves through mountain ridges, old rail lines, farm markets, city blocks, and careful schoolwork: steady, alert, and ready for the next clue.

1. **Preview the tools.** Skim the reference page before each test.
2. **Take one test.** Work steadily and mark problems that need another look.
3. **Check the key.** Use the compact answer boxes first.
4. **Study explanations.** Read missed items and lucky guesses.
5. **Redo three problems.** Rewrite the work cleanly without copying.
6. **Name one habit.** Choose a focus such as labels, facts, fractions, or checking.
7. **Start the next trail.** Bring that habit into the next full test.

Best review habit: A missed problem is a trail marker. It shows where to slow down, look again, and choose a better step.



What Is Inside?

Seven complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–7	Solve seven different 30-question tests.	Build stamina and see Grade 3 skills mixed together.
Reference Materials	Review measurement and time facts before each test.	Keep common tools close without turning pages backward.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read why each answer works.	Turn missed items into a clear next step.
Standards Reference	See how Pennsylvania Grade 3 standards connect to practice.	Understand the skills behind the questions.

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. This gives students practice with quick decisions, careful reading, and short written math answers for the Pennsylvania PSSA path.



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& answers

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1) Diego found 6 anthills. Each anthill has 9 ants. How many ants did Diego find?

- A. 72 ants C. 15 ants
 B. 48 ants D. 54 ants

2) Ben has 5 bags with 6 pencils in each bag. He gives away 10 pencils. How many pencils does Ben have left?

- A. 20 C. 30
 B. 25 D. 35

3) A picture graph shows stickers. Each heart represents 2 stickers. Mia had 8 hearts, then gave away 3 hearts. How many stickers does Mia have now?

- A. 5 stickers C. 16 stickers
 B. 10 stickers D. 11 stickers

4) On a number line from 0 to 1 divided into 8 equal parts, which two fractions name the same point?



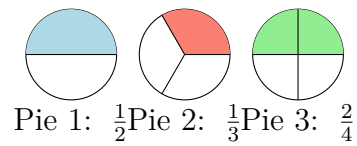
- A. $\frac{1}{2}$ and $\frac{4}{8}$ C. $\frac{3}{8}$ and $\frac{5}{8}$
 B. $\frac{2}{8}$ and $\frac{3}{8}$ D. $\frac{2}{4}$ and $\frac{6}{8}$

5) 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

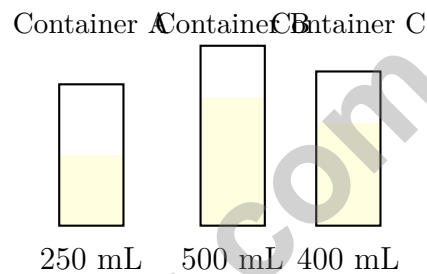


6) Which two pie charts show equivalent fractions?



- A. Pies 1 and 2 C. Pies 2 and 3
 B. Pies 1 and 3 D. All three pies

Three Containers



7)

Which container holds the least amount of liquid?

- A. Container A C. Container C
 B. Container B D. All hold the same

8) A rectangle is tiled by two smaller rectangles. One is 4×6 and the other is 4×2 . What is the total area?

- A. 48 C. 20
 B. 32 D. 12



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9) A classroom has 2 shelves. Each shelf has 9 books. How many books are on the shelves?

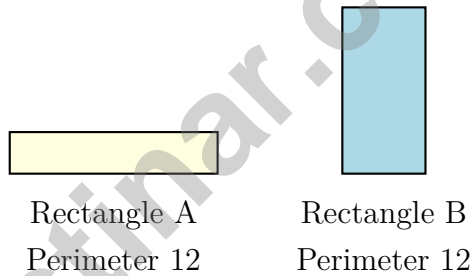
- A. 18 C. 20
 B. 11 D. 7

10) What number makes the equation true?

$$9 \times \square = 54$$

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

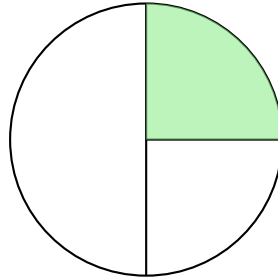
11) Two rectangles have the same PERIMETER (distance around). Does that mean they have the same AREA (space inside)?



- A. Yes, same perimeter means same area
 B. No, they can have different areas even with the same perimeter
 C. Only if they are both squares
 D. Area and perimeter are the same thing



- 1) A circle is divided into 2 equal halves. One half is divided again into 2 equal parts. Which fraction shows one of the smaller parts?



- A. $\frac{1}{2}$ C. $\frac{2}{4}$
 B. $\frac{1}{4}$ D. $\frac{3}{4}$
- 2) Sam reads for 26 minutes starting at 6 : 19 PM. What time does Sam finish reading?
- A. 6 : 35 PM C. 6 : 45 PM
 B. 6 : 40 PM D. 6 : 50 PM
- 3) A rectangular sandbox in a park has a length of 9 feet and a width of 7 feet. What is the area of the sandbox?
- A. 63 sq ft C. 16 sq ft
 B. 32 sq ft D. 126 sq ft
- 4) Compare the products. Is 6×7 less than, equal to, or greater than 9×5 ?
- A. 6×7 is less D. Cannot compare without calculating
 B. 6×7 is equal
 C. 6×7 is greater



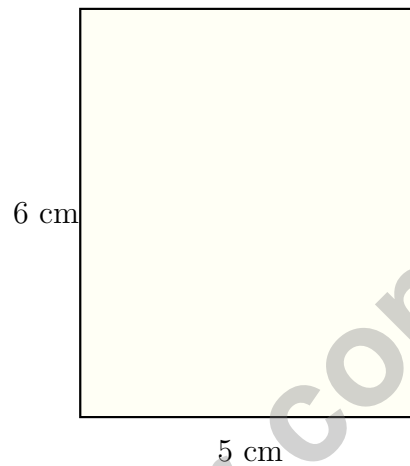
1) Lily tiles a wall with unit squares (1 foot by 1 foot). The wall is 8 feet wide and 2 feet tall. How many tiles does she need?

A. 10 tiles

C. 14 tiles

B. 12 tiles

D. 16 tiles



2)

5 cm

A rectangular notebook is 5 centimeters wide and 6 centimeters tall. Find the area.

A. 11 sq cm

C. 22 sq cm

B. 30 sq cm

D. 60 sq cm

3) A number line from 0 to 1 is divided so that the unit fraction at the first tick is $\frac{1}{3}$. How long is the second tick from 0?

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

C. $\frac{1}{6}$

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

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



4) Which multiplication fact is true?

A. $7 \times 6 = 48$

C. $9 \times 4 = 36$

B. $8 \times 6 = 42$

D. $5 \times 9 = 50$

5) A square tile has side length 3 inches. What is its area?

A. 9 sq in

C. 12 sq in

B. 6 sq in

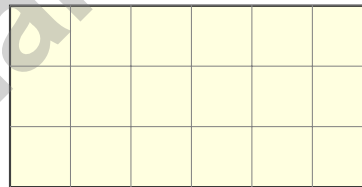
D. 15 sq in

6) Noah loses 3 of 6 marbles. What fraction did he lose in simplest form?



7) Look at the rectangle. It is 6 units long and 3 units wide. What is the area?

3 units



6 units

A. 9 square units

C. 18 square units

B. 12 square units

D. 15 square units



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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 D is correct.** **CC.2.3.3.A.2** 6 anthills with 9 ants each means 6 groups of 9. So $6 \times 9 = 54$ ants.
- 2) **Choice A is correct.** **CC.2.2.3.A.4** Step 1: Find total pencils: $5 \times 6 = 30$. Step 2: Subtract: $30 - 10 = 20$ pencils. (Choice C is the answer to step 1 only—students must complete both steps.)
- 3) **Choice B is correct.** **CC.2.4.3.A.4** Remaining hearts: $8 - 3 = 5$. Convert to stickers: $5 \times 2 = 10$ stickers.
- 4) **Choice A is correct.** **1.3.C** Both $\frac{1}{2}$ and $\frac{4}{8}$ represent the point halfway from 0 to 1 on a number line.
- 5) **Choice C is correct.** **CC.2.2.3.A.4** An even number times any other whole number is always even, because the result is a multiple of 2.
- 6) **Choice B is correct.** **CC.2.3.3.A.2** Pie 1 shows $\frac{1}{2}$ (half shaded) and Pie 3 shows $\frac{2}{4}$ (half shaded). Both represent the same amount: $\frac{1 \times 2}{2 \times 2} = \frac{2}{4}$.
- 7) **Choice A is correct.** **CC.2.4.3.A.1** 250 mL is the smallest amount.
- 8) **Choice B is correct.** **CC.2.4.3.A.5** $(4 \times 6) + (4 \times 2) = 24 + 8 = 32$. Both rectangles share width 4, so the total width is $6 + 2 = 8$.
- 9) **Choice A is correct.** **CC.2.2.3.A.1** Multiply: 2 shelves \times 9 books per shelf = 18 books.
- 10) **Choice D is correct.** **CC.2.2.3.A.2** Divide: $54 \div 9 = 6$. Check: $9 \times 6 = 54$.
- 11) **Choice B is correct.** **CC.2.4.3.A.6** Rectangle A: $5 \times 1 = 5$ square units. Rectangle B: $2 \times 4 = 8$ square units. Both have perimeter 12, but different areas. Area and perimeter are independent.
- 12) **Choice D is correct.** **CC.2.3.3.A.2** There are 9 circles total, divided into 3 equal groups. Each group has 3 circles, so $9 \div 3 = 3$.
- 13) **The correct answer is $\frac{2}{6}$.** **CC.2.3.3.A.2** The second tick out of 6 equal parts is $\frac{2}{6}$.
- 14) **Choice C is correct.** **CC.2.3.3.A.2** $\frac{2}{4} = \frac{3}{6} = \frac{1}{2}$. Both show one-half of their squares shaded.
- 15) **Choices A, B, and C are correct.** **CC.2.3.3.A.2** Strategies A, B, and C all use repeated addition (skip-counting) to count all 15 unit squares. D counts only one row, and E adds the sides (which is perimeter, not area).
- 16) **Choice A is correct.** **CC.2.3.3.A.1** A square is a special kind of rectangle that also has all sides equal. Every square has the properties of a rectangle (4 sides, 4 right angles), so every square is a rectangle.
- 17) **Choice B is correct.** **CC.2.3.3.A.2** Add the areas: $18 + 10 = 28$ square units.
- 18) **Choice C is correct.** **CC.2.4.3.A.2** Numbers from 250 to 349 round to 300. Choice C (251 and 349) both round to 300. Choices A, B, D include numbers outside this range.
- 19) **Choice C is correct.** **CC.2.4.3.A.4** The mode is the value with the most X's. Since 5 inches has 2 X's and 6 inches has 1, the mode at $5\frac{1}{2}$ inches must have more than 2. The minimum is 3 X's.
- 20) **Choice B is correct.** **CC.2.3.3.A.2** 15 thirds means $15 \div 3 = 5$ wholes. Each candy bar had 3 thirds.
- 21) **Choice D is correct.** **CC.2.1.3.B.1** Skip count by 10s: 10, 20, 30. There are 3 groups of 10 stars, so $3 \times 10 = 30$ stars total.
- 22) **Choice C is correct.** **CC.2.3.3.A.2** Area = 9 in \times 2 in = 18 square inches = 18 unit squares.
- 23) **Choice B is correct.** **CC.2.4.3.A.5** With length 5 and width 4, you add the width 4 five times: $4 + 4 + 4 + 4 + 4 = 20$. This equals $5 \times 4 = 20$ square units.
- 24) **Choice A is correct.** **CC.2.3.3.A.2** When a whole is divided into 8 equal parts, one part is the unit fraction $\frac{1}{8}$ (one-eighth).
- 25) **The correct answer is 277.** **CC.2.1.3.B.1** Regroup 604 as 5 hundreds, 9 tens, and 14 ones. Ones: $14 - 7 = 7$. Tens: $9 - 2 = 7$. Hundreds: $5 - 3 = 2$. Correct: 277.
- 26) **Choice B is correct.** **CC.2.3.3.A.2** $9 \times 7 = 63$ unit squares cover the tile.
- 27) **Choice A is correct.** **CC.2.3.3.A.2** Area = length \times width = $6 \times 4 = 24$ square inches.
- 28) **Choice B is correct.** **CC.2.3.3.A.2** Same numerator: sixths are bigger pieces than eighths. Two sixths is greater than two eighths.
- 29) **Choice D is correct.** **CC.2.2.3.A.3** The missing factor is 9 because $9 \times 7 = 63$. This is the same as saying $63 \div 7 = 9$.



Notes From the Math Gardener

Hi, Math Gardener!

◇ Look at how much you grew! 7 tests is like 7 weeks of taking care of your math garden. Every problem was a seed. Every try was water. ◇

★ **Gardeners say:** growth takes time. You can't see roots, but they are there. You can't always feel smarter, but you are. Your math garden is full! ★

Garden Check-Up

- **Roots:** STRONG! Your basic math is solid.
- **Stems:** STURDY! You can do step-by-step problems.
- **Leaves:** GREEN! You have lots of math tools.
- **Flowers:** BRIGHT! You feel proud of your work.

Gardener tip: keep watering your math garden long after the test. Every habit you built will grow with you for years!

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

Jay Daie

Your Math Gardener

PRACTICE TODAY. MASTER TOMORROW.

This book is designed to help **Grade 3** students strengthen their math skills through focused practice and real progress.

- ✓ 7 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success
- ✓ Review, answer keys, and explanations



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