

8

Pennsylvania

PSSA

GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



8 Full-Length
Practice Tests



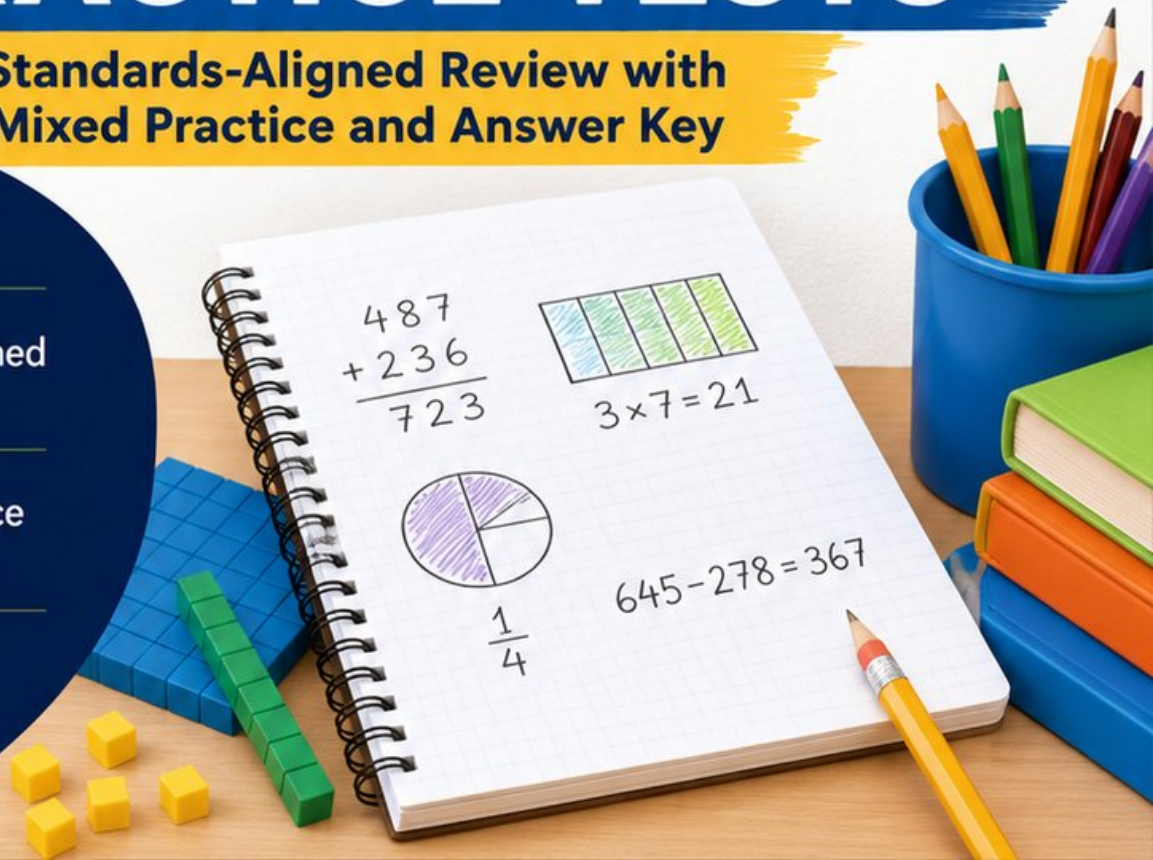
Standards-Aligned
Questions



Build Confidence
and Math Skills



Answer Key
Included



8 Pennsylvania PSSA Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



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

Jay Daie and Reza Nazari



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Pennsylvania, Your Eight-Test Math Path Begins

Eight focused rounds, one stronger Grade 3 problem solver

This book gives you eight full chances to practice like a careful test taker for the Pennsylvania PSSA. Each test is a new route through numbers, shapes, data, measurement, and word problems. Work slowly enough to notice what the question asks, and proudly enough to show your thinking.

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.

Your Pennsylvania Math Promise

I will read the whole question, choose a smart strategy, write clear work, and check whether my answer makes sense.

Eight rounds. Thirty questions each. One careful step at a time.

How to Use This Book

A simple eight-round routine for confident review

Use this Pennsylvania book as a practice plan, not a race. Finish one test, review it, fix a few problems, then carry one better habit into the next test.

1. **Preview the reference page.** Notice units, time, and measurement facts before you begin.
2. **Take one full test.** Circle anything that feels tricky so you can return to it.
3. **Check the answer key.** Mark correct answers and questions to try again.
4. **Read explanations.** Study missed items and lucky guesses first.
5. **Redo three problems.** Write fresh work without copying the explanation.
6. **Name one habit.** Pick a focus such as labels, facts, fractions, or neat work.
7. **Try the next test.** Bring that habit forward.
8. **Finish with a final check.** Look for growth across all eight tests.

Best review habit: In Pennsylvania, strong practice means slowing down enough to see the clue. When an answer is wrong, ask, “What step would I change next time?”



What Is Inside the Eight Tests?

Mixed Grade 3 math practice for the PSSA

Each practice test has 30 questions. You will see multiple-choice questions, select-all questions, and open-ended questions with workspace. The mix helps students practice both choosing an answer and explaining a short mathematical result.

Part	What to Expect
Eight full tests	30 mixed Grade 3 questions in each round
Math topics	multiplication, division, place value, fractions, time, measurement, data, area, perimeter, and shapes
Answer keys	compact answer boxes for quick checking
Explanations	short reasoning for every item so mistakes become useful review
Progress pages	places to record scores, habits, and next-step goals

Pennsylvania focus: The practice path starts with mountain ridges, old rail lines, farm markets, city blocks, and careful schoolwork. Strong math uses the same idea: know the path, follow the clues, and check the final answer.



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Table of Contents

★ Practice Test 1	_____	14
★ Practice Test 2	_____	27
★ Practice Test 3	_____	39
★ Practice Test 4	_____	51
★ Practice Test 5	_____	63
★ Practice Test 6	_____	76
★ Practice Test 7	_____	89
★ Practice Test 8	_____	101
Practice Test Answer Keys	_____	113
Practice Test Answers and Explanations	_____	118

1) Mia buys 8 bags of candy. Each bag has 3 candies. How many candies does Mia buy?

- A. 11 C. 18
 B. 16 D. 24

2) The bar shows $\frac{8}{4}$. How many whole units?

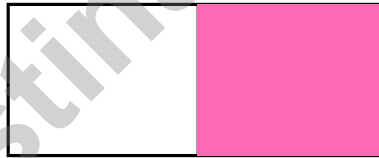


- A. 1 whole C. 4 wholes
 B. 2 wholes D. 8 wholes

3) Aiden buys 6 packs of trading cards with 4 cards in each pack. He loses 8 cards. How many cards does he have now?

- A. 16 C. 24
 B. 22 D. 32

4) A rectangle has 2 equal parts. One part is shaded.

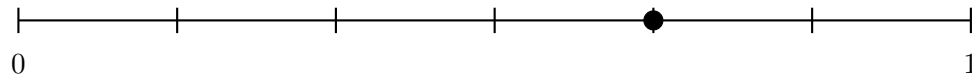


What fraction does the shaded part show?

- A. $\frac{1}{3}$ C. $\frac{1}{2}$
 B. $\frac{2}{1}$ D. $\frac{2}{2}$

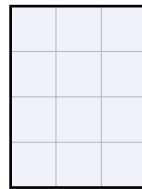


5) A number line from 0 to 1 has 6 equal parts. The dot marks which fraction?



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

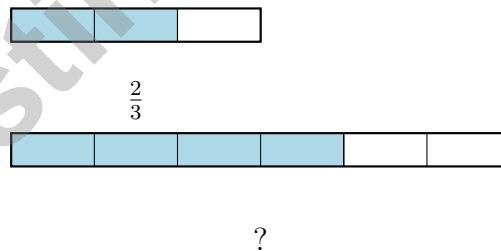
6) A grid shows a rectangle with 3 columns and 4 rows of unit squares.



What is the area?

- A. 7 sq units
 C. 12 sq units
 B. 9 sq units
 D. 15 sq units

7) Look at the bars. What fraction does the second bar show?



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



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8) A rectangle is covered by 4 rows of 8 unit squares. How many unit squares cover it?

- A. 12 unit squares C. 24 unit squares
 B. 32 unit squares D. 36 unit squares

9) When you round 45 to the nearest 10, why does the ones digit matter more than the hundreds digit?

- A. Because we are rounding to the nearest 10, not the nearest 100 C. Because 45 is a large number
 B. Because the ones digit is always bigger D. Because 50 is better than 40

10) Mia groups coins into 9 piles of 10 coins each. Use the place-value chart to show the total.

Tens	Ones
9	0

What is the total number of coins?

- A. 19 C. 910
 B. 109 D. 90



1) A grid shows 6 rows and 5 columns of squares. How many squares are there?

A. 11

C. 25

B. 35

D. 30

2) On a number line from 0 to 1, the first tick is very small and close to zero. Which unit fraction makes sense?

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

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

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

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

3) Mia computed $456 + 237$ and got 693. Is her answer reasonable? Explain by rounding to the nearest hundred.

A. Yes; $500 + 200 = 700$, which is close to 693

C. Yes; the exact answer is 693

B. No; $500 + 200 = 700$, but she wrote 693

D. No; $400 + 300 = 700$, but she wrote 693

4) Which fraction is the same as $\frac{3}{6}$?

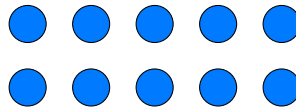
A. $\frac{1}{3}$

C. $\frac{2}{6}$

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

D. $\frac{3}{4}$

5)



Which multiplication sentence matches?

A. $10 + 0 = 10$

C. $7 \times 5 = 35$

B. $2 \times 2 = 4$

D. $5 \times 2 = 10$

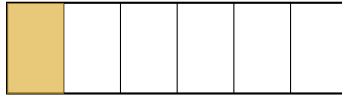


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6) Which situation can be solved using $24 \div 6$?

- A. 24 cookies shared equally among 6 friends
- B. 6 items split between 24 people
- C. 24 times 6
- D. 24 plus 6

7) A rectangle is divided into equal parts. Ben needs to shade $\frac{1}{6}$ of the rectangle. The rectangle has 6 equal parts. How many parts should Ben shade?



A. 0 parts

B. 1 part

C. 2 parts

D. 3 parts

8) Eli bought 48 buttons for his sewing project. He needs 6 buttons per shirt. How many shirts can he complete?

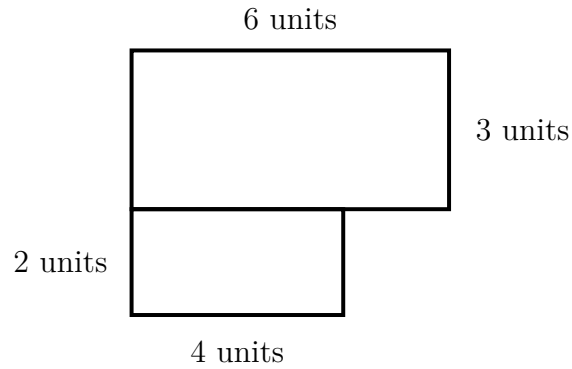
- A. 6 shirts
- B. 7 shirts
- C. 9 shirts
- D. 8 shirts

9) Round 682 to the nearest 100.

- A. 600
- B. 680
- C. 682
- D. 700

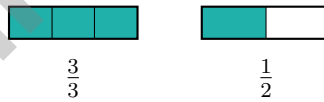


- 1) An L-shaped deck is shown with dashed lines. Upper part: 6 units by 3 units. Lower left part: 4 units by 2 units. What is the total area?



- A. 15 sq units C. 26 sq units
 B. 30 sq units D. 48 sq units
- 2) Eli has 24 marbles. He makes 6 equal piles. How many marbles are in each pile?

- A. 3 C. 5
 B. 6 D. 4



- 3) Compare $\frac{3}{3}$ and $\frac{1}{2}$. Which is true?

- A. $\frac{3}{3} < \frac{1}{2}$ C. $\frac{3}{3} = \frac{1}{2}$
 B. $\frac{3}{3} > \frac{1}{2}$ D. Cannot compare them



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- 4) A rectangle is divided into 6 equal parts with all horizontal lines. Eli shades 4 parts. What fraction does he NOT shade?



- A. $\frac{2}{6}$ C. $\frac{1}{6}$
 B. $\frac{4}{6}$ D. $\frac{5}{6}$
- 5) What fraction is equivalent to both $\frac{2}{4}$ and $\frac{3}{6}$?

- 6) The minute hand points to 9. What could be the time?
- A. 2 : 45 C. 3 : 30
 B. 9 : 05 D. 5 : 09
- 7) A bar graph shows games played. Soccer bar is 3 units, basketball bar is 4 units, tag bar is 2 units. Each unit is 5 games. How many total games were played?
- A. 45 C. 55
 B. 50 D. 60



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.2.2.3.A.1](#) Multiply: $8 \text{ bags} \times 3 \text{ candies per bag} = 24 \text{ candies}$.
- 2) **Choice B is correct.** [CC.2.3.3.A.2](#) $8 \text{ fourths} \div 4 \text{ fourths per whole} = 8 \div 4 = 2 \text{ wholes}$. The bar shows 2 full sections (thick line at middle).
- 3) **Choice A is correct.** [CC.2.2.3.A.4](#) Step 1: Total cards: $6 \times 4 = 24 \text{ cards}$. Step 2: Subtract lost: $24 - 8 = 16 \text{ cards}$.
- 4) **Choice C is correct.** [CC.2.3.3.A.2](#) The rectangle is divided into 2 equal parts with 1 shaded. The fraction is $\frac{1}{2}$ (one-half).
- 5) **Choice C is correct.** [1.3.C](#) Counting ticks from 0, the dot is at the 4th mark out of 6 equal parts, so it is $\frac{4}{6}$.
- 6) **Choice C is correct.** [CC.2.3.3.A.2](#) $3 \times 4 = 12 \text{ unit squares}$.
- 7) **Choice B is correct.** [CC.2.2.3.A.4](#) Both bars show the same amount. $\frac{2}{3}$ and $\frac{4}{6}$ are equivalent.
- 8) **Choice B is correct.** [CC.2.3.3.A.2](#) 4 rows of 8 unit squares gives $4 \times 8 = 32 \text{ unit squares}$.
- 9) **Choice A is correct.** [CC.2.4.3.A.2](#) When rounding to the nearest 10, we look at the ones digit to decide if we round up or down. The ones digit is 5, so 45 rounds to 50.
- 10) **Choice D is correct.** [CC.2.1.3.B.1](#) The chart shows 9 tens and 0 ones, which represents $9 \times 10 = 90 \text{ coins}$.
- 11) **Choice C is correct.** [CC.2.4.3.A.5](#) Two equal rectangles each have area 14. Add the two parts: $14 + 14 = 28 \text{ square units}$.
- 12) **Choice A is correct.** [CC.2.2.3.A.2](#) To find the number of bags, divide the total marbles by the marbles in each bag: $72 \div 8 = 9$.
- 13) **Choice B is correct.** [CC.2.4.3.A.5](#) Area = $3 \times 5 = 15 \text{ square feet}$.
- 14) **Choices B and C are correct.** [CC.2.4.3.A.1](#) Choices B and C both equal 2000 mL. Choice A (2 kg) is mass, not volume. Choice D (2000 g) is mass. Choice E ($750 + 750 = 1500 \text{ mL}$) is less than 2000 mL.
- 15) **Choice B is correct.** [CC.2.3.3.A.2](#) Three thirds is one whole. Three sixths is half. So $\frac{3}{3} > \frac{3}{6}$.
- 16) **Choice D is correct.** [CC.2.3.3.A.2](#) $10 \div 5 = 2$. The picture shows 5 equal groups, each with 2 items.
- 17) **Choice B is correct.** [CC.2.3.3.A.2](#) Multiply numerator and denominator by 3: $\frac{1 \times 3}{2 \times 3} = \frac{3}{6}$.
- 18) **Choice C is correct.** [CC.2.3.3.A.2](#) Count rows and columns: 4 units wide and 2 units tall equals $4 \times 2 = 8 \text{ unit squares}$ covering the rectangle with no gaps or overlaps.
- 19) **Choice B is correct.** [CC.2.4.3.A.6](#) Multiply length by width: $8 \times 6 = 48 \text{ square meters}$.
- 20) **Choice A is correct.** [CC.2.1.3.B.1](#) Add to find the total: $312 + 188 = 500$. Ones: $2 + 8 = 10$ (write 0, carry 1). Tens: $1 + 8 + 1 = 10$ (write 0, carry 1). Hundreds: $3 + 1 + 1 = 5$.
- 21) **Choice B is correct.** [CC.2.3.3.A.2](#) Top: $6 \times 2 = 12 \text{ sq units}$. Bottom: $5 \times 3 = 15 \text{ sq units}$. Total: $12 + 15 = 27 \text{ sq units}$.
- 22) **Choice A is correct.** [CC.2.3.3.A.2](#) If 2 out of 3 parts are shaded, then 1 part is not shaded, which is $\frac{1}{3}$.
- 23) **The correct answer is 4 sides.** [CC.2.3.3.A.1](#) A square has 4 sides.
- 24) **Choice C is correct.** [CC.2.4.3.A.4](#) Ants: $7 \times 4 = 28$. Bees: $3 \times 4 = 12$. Total: $28 + 12 = 40$.
- 25) **The correct answer is 2 scores.** [CC.2.4.3.A.4](#) The scores 81 and 82 points each occur once, so there are 2 scores occurring exactly once.
- 26) **Choice D is correct.** [CC.2.2.3.A.2](#) $6 \times 7 = 42$. You can count by 7s: 7, 14, 21, 28, 35, 42.
- 27) **The correct answer is 7.** [CC.2.2.3.A.3](#) $56 \div 8 = 7$ because $7 \times 8 = 56$. Division and multiplication are inverse operations.
- 28) **Choice D is correct.** [CC.2.1.3.B.1](#) The commutative property shows that switching the factors in a multiplication gives the same product: $3 \times 4 = 4 \times 3 = 12$.
- 29) **Choice A is correct.** [CC.2.4.3.A.2](#) At 9:33, the minute hand points to 33 minutes, just past the 6. The hour hand is between 9 and 10. Clock A shows this correctly.
- 30) **Choice C is correct.** [CC.2.3.3.A.2](#) Area = length \times width = $12 \times 4 = 48 \text{ square feet}$.



Notes From Your Math Builder

Hi, Math Builder!

◇ Through 8 practice tests, you built your math house brick by brick. The walls are strong. The roof is on. You are ready for anything test day brings. ◇

★ **Builders know:** good plans make strong houses. You learned to plan, then build. That helps with any problem. ★

Builder's Tools

- **Foundation:** ROCK SOLID. Math facts are in place.
- **Frame:** STRONG. You can break problems into parts.
- **Walls:** TIDY. Your work is neat and clear.
- **Roof:** DONE. You always answer the question.

Builder tip: on test day, build each answer like a tiny house. Read first. Plan next. Do the math. Then check!

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

Jay Daie

Your Math Builder

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PRACTICE TODAY. MASTER TOMORROW.

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

- ✓ 8 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success



EACH PRACTICE TEST INCLUDES:



Standards-
Aligned
Questions



Variety of
Question
Types



Real-World
Math
Applications



Step-by-Step
Progress
Tracking



Build Skills
and Boost
Confidence

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- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Number Patterns
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