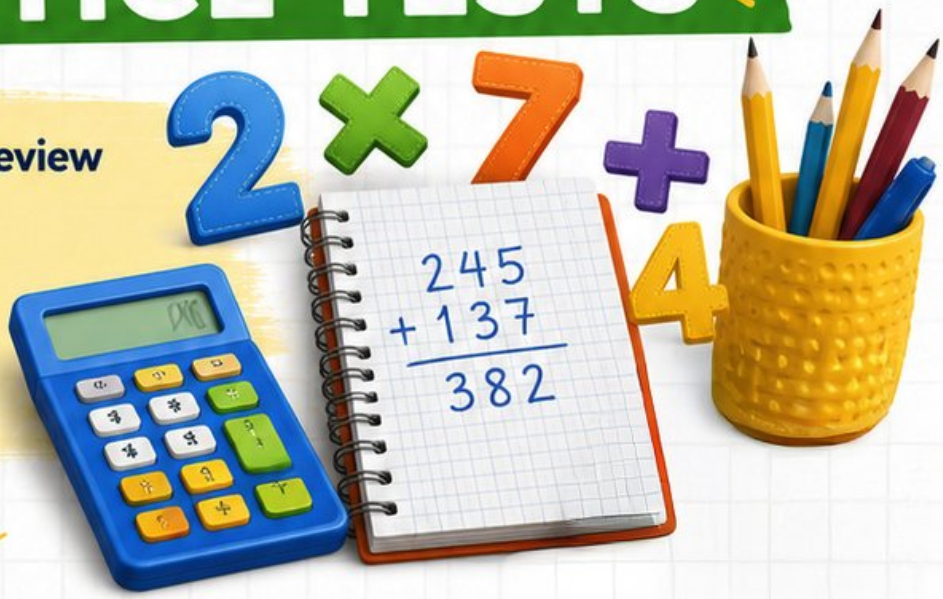
10 Pennsylvania PSSA GRADE 3 MATH PRACTICE TESTS

- Complete Standards Review
- Skill Practice
- Word Problems and Answer Key

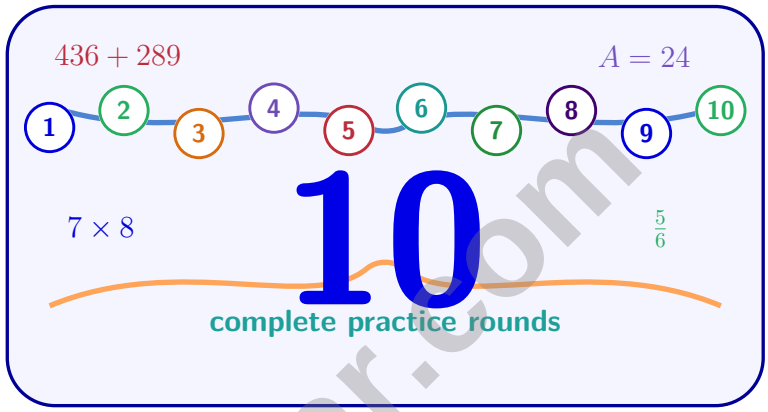


PREPARE PRACTICE SUCCEED!

- Aligned to Grade 3 Math Standards
- Build Confidence and Master Math Skills
- Test-Taking Practice for Success
- Answer Key for Easy Review

10 Pennsylvania PSSA Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten complete 30-question Grade 3 practice rounds for PSSA, built around keystone bridges, city streets, and careful explanation work, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari

Copyright ©

Testinar Inc

Published by Testinar Inc

Testinar.com

Welcome, Pennsylvania Math Explorer!

Ten steady rounds on the Keystone State math route

This book gives you ten full Grade 3 practice tests for PSSA. Each round uses keystone bridges, city streets, and careful explanation work to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Pennsylvania Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

How to Use This Book

A ten-session routine for Pennsylvania PSSA review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the Keystone State math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

Good rhythm: Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.

What Is Inside?

Ten tests, 300 questions, and a full PSSA review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 4–6	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 7–9	Stamina rounds for mixed review, neat work, and flexible strategies.
Test 10	Final round to show growth across the whole Pennsylvania book.
Answer Pages	Compact keys and explanations that show why each answer works.

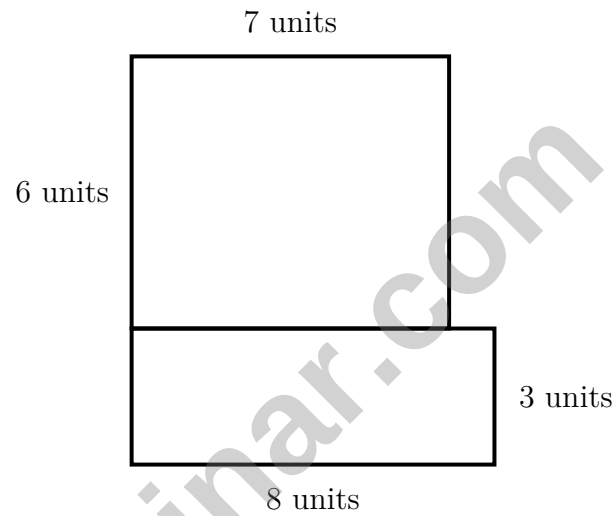
The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.

Table of Contents

1) A square frame is made of wood. Each side is 5 inches. If you wanted to cover the area inside the frame with paper, how much paper would you need?

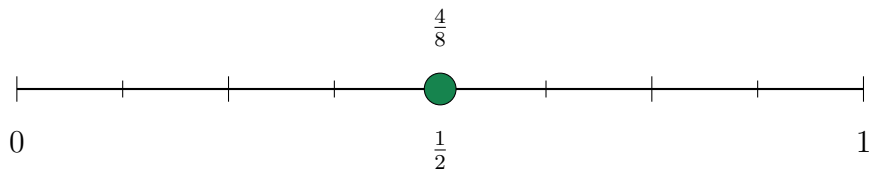
☐ A. 10 square inches
☐ B. 20 square inches
☐ C. 25 square inches
☐ D. 5 square inches

2) An L-shaped wall is divided by dashed lines. The vertical section is 7 units by 6 units. The horizontal section is 8 units by 3 units. What is the total area?



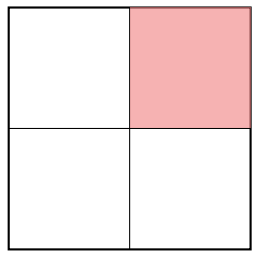
☐ A. 42 sq units
☐ B. 24 sq units
☐ C. 66 sq units
☐ D. 1008 sq units

3) Look at the number line. Where does $\frac{4}{8}$ land?



☐ A. At $\frac{1}{4}$
☐ B. At $\frac{1}{2}$
☐ C. At $\frac{3}{4}$
☐ D. At $\frac{1}{8}$

4) A rectangle is divided into 2 equal parts vertically. Then it is divided into 2 equal parts horizontally making 4 smaller equal parts. What fraction is one small part?



☐ A. $\frac{1}{2}$
☐ B. $\frac{1}{4}$
☐ C. $\frac{1}{3}$
☐ D. $\frac{2}{4}$

5) Maya has 4 bags of buttons. Each bag has 6 buttons. She uses 8 buttons to make one bracelet. How many bracelets can she make with all her buttons?

☐ A. 2
☐ B. 24
☐ C. 18
☐ D. 3

6) Which statement is true about rectangles and rhombuses?

☐ A. All rectangles are rhombuses
☐ B. All rhombuses are rectangles
☐ C. Both are quadrilaterals (4-sided figures)
☐ D. Rectangles have equal sides like rhombuses do

7) Which is NOT equivalent to $\frac{1}{2}$?

☐ A. $\frac{2}{4}$
☐ B. $\frac{3}{6}$
☐ C. $\frac{2}{6}$
☐ D. $\frac{4}{8}$

8) What is 5×9?

☐ A. 40
☐ C. 50
☐ B. 54
☐ D. 45

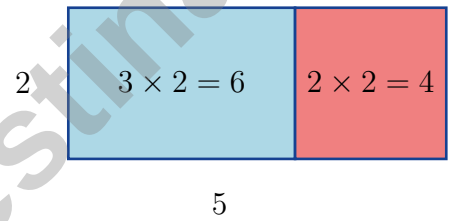
9) A picture graph shows toy cars. Each car icon represents 4 cars. Diego has 12 cars. How many icons should be shown for Diego?

☐ A. 3 icons
☐ C. 6 icons
☐ B. 4 icons
☐ D. 12 icons

10) Ben draws two bars. Bar 1 is divided into 4 equal parts with 2 parts shaded. Bar 2 is divided into 8 equal parts with 4 parts shaded. The bars are the same length. Are the shaded regions the same size?

☐ A. No, Bar 1 is larger.
☐ C. No, Bar 2 is larger.
☐ B. Cannot tell without measuring.
☐ D. Yes, they are the same size.

11) Look at this area model. Which equation does it show?

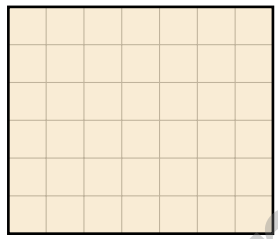


☐ A. $2 \times 3 = 6$
☐ C. $3 \times (2 + 2) = 12$
☐ B. $5 + 2 = 7$
☐ D. $2 \times (3 + 2) = 10$

1) Ava measures a rectangular mat that is 7 units by 5 units. What is its area in square units?

☐ A. 12 sq units
☐ B. 35 sq units
☐ C. 24 sq units
☐ D. 70 sq units

2) On a grid, a rectangle covers 6 rows and 7 columns of unit squares.



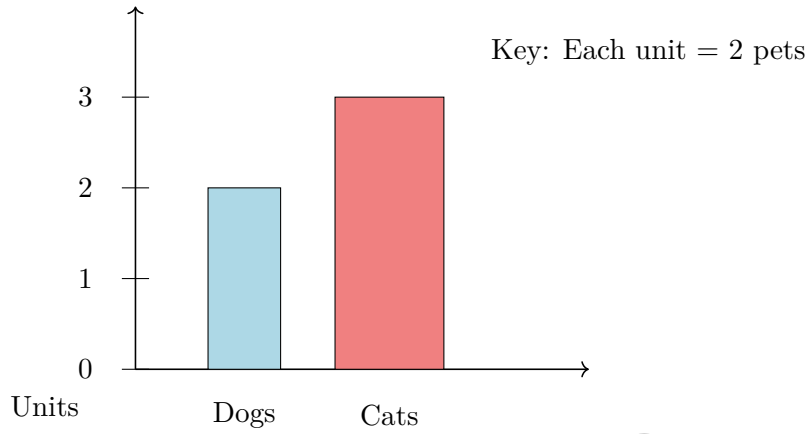
What is the area?

☐ A. 26 sq units
☐ B. 36 sq units
☐ C. 42 sq units
☐ D. 48 sq units

3) Noah is making a rectangular picture frame. The frame is 9 inches wide and 7 inches tall. What is the area inside the frame?

☐ A. 32 sq in
☐ B. 56 sq in
☐ C. 16 sq in
☐ D. 63 sq in

4) Look at the bar graph. What is the height of each bar in units?



☐ A. Dogs is 3 units, Cats is 2 units.
☐ B. Dogs is 2 units, Cats is 3 units.
☐ C. Dogs is 2 units, Cats is 2 units.
☐ D. Dogs is 1 unit, Cats is 4 units.

5) What is 4×50?

6) A square mural is made of unit tiles. It has 6 columns and 6 rows. What is the area of the mural?

☐ A. 12
☐ B. 24
☐ C. 36
☐ D. 66

1) What number makes the equation true?

$$54 \div \square = 9$$

☐ A. 9
☐ B. 8
☐ C. 7
☐ D. 6

2) Look at this subtraction: $751 - 329 = 412$. Is this correct or incorrect?

☐ A. Correct
☐ B. Incorrect; the answer should be 432
☐ C. Incorrect; the answer should be 522
☐ D. Incorrect; the answer should be 422

3) A fruit stand has 3 crates of oranges with 7 oranges each and 2 crates of lemons with 8 lemons each. How many pieces of fruit in total?

☐ A. 30
☐ B. 48
☐ C. 40
☐ D. 37

4) Which fraction equals the whole number 2?

☐ A. $\frac{1}{2}$
☐ B. $\frac{2}{3}$
☐ C. $\frac{2}{1}$
☐ D. $\frac{2}{4}$

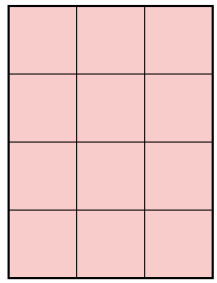
5) A shape has 4 sides and 4 right angles. Which of these could it be?

☐ A. Square or rectangle
☐ B. Rhombus or trapezoid
☐ C. Triangle or square
☐ D. Parallelogram only

6) A baker puts 6 cupcakes in each box. If he has 9 boxes, how many cupcakes does he have in total?

☐ A. 15
☐ B. 45
☐ C. 63
☐ D. 54

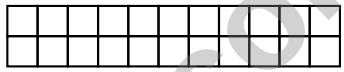
7)



Count all the unit squares in the grid shown. How many are there?

☐ A. 10 unit squares
☐ B. 11 unit squares
☐ C. 12 unit squares
☐ D. 13 unit squares

8) Here is a long thin rectangle made of unit squares:



Count the unit squares. What is the area?

☐ A. 11 sq units (just one row)
☐ B. 13 sq units
☐ C. 22 sq units
☐ D. 44 sq units

9) What is $2+2+2+2+2$? What multiplication sentence matches this?

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.

Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

1) **Choice C is correct.** CC.2.4.3.A.6 To cover the inside area of a square frame with side 5 inches, you need $5 \times 5 = 25$ square inches of paper.
2) **Choice C is correct.** CC.2.3.3.A.2 Vertical: $7 \times 6 = 42$ sq units. Horizontal: $8 \times 3 = 24$ sq units. Total: $42 + 24 = 66$ sq units.
3) **Choice B is correct.** CC.2.2.3.A.4 $\frac{4}{8}$ and $\frac{1}{2}$ mark the same point on the line.
4) **Choice B is correct.** CC.2.3.3.A.2 One vertical line and one horizontal line create 4 equal parts. One part is $\frac{1}{4}$.
5) **Choice D is correct.** CC.2.2.3.A.1 First multiply to find total buttons: 4 bags × 6 buttons per bag = 24 buttons. Then divide by buttons per bracelet: $24 \div 8 = 3$ bracelets.
6) **Choice C is correct.** CC.2.3.3.A.1 A rectangle has 4 right angles, and a rhombus has 4 equal sides; both are quadrilaterals. They share the attribute of having four sides, even though they differ in other properties.
7) **Choice C is correct.** CC.2.3.3.A.2 $\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8}$. But $\frac{2}{6}$ simplifies to $\frac{1}{3}$, not $\frac{1}{2}$.
8) **Choice D is correct.** CC.2.2.3.A.2 $5 \times 9 = 45$. Count by 5s: $5, 10, 15, 20, 25, 30, 35, 40, 45$.
9) **Choice A is correct.** CC.2.4.3.A.4 Divide total by scale: $12 \div 4 = 3$ icons.
10) **Choice D is correct.** CC.2.3.3.A.2 $\frac{2}{4}$ and $\frac{4}{8}$ are equivalent because both show one-half of the bar shaded. When denominator doubles, the numerator also doubles to maintain the same-size region.
11) **Choice D is correct.** CC.2.1.3.B.1 The area model shows a rectangle split into two parts: one part is $3 \times 2 = 6$ and the other is $2 \times 2 = 4$. Using the distributive property: $2 \times (3 + 2) = 2 \times 3 + 2 \times 2 = 6 + 4 = 10$.
12) **Choice C is correct.** CC.2.3.3.A.2 The garden is 6 m × 2 m = 12 m^2, which equals 12 unit squares of 1 m by 1 m.
13) **Choices A and B are correct.** CC.2.1.3.B.1 $5 \times 70 = 350$ (multiply $5 \times 7 = 35$, add zero). $7 \times 50 = 350$ (multiply $7 \times 5 = 35$, add zero). *C*: $7 \times 30 = 210$. *D*: $5 \times 60 = 300$. *E*: $5 \times 50 = 250$. Choices A and B equal 350.
14) **Choice C is correct.** CC.2.3.3.A.2 Area = $10 \times 5 = 50$ square centimeters.
15) **Choice A is correct.** CC.2.1.3.B.1 Ones: $7 + 6 = 13$ (write 3, carry 1). Tens: $6 + 1 + 1 = 8$. Hundreds: $5 + 2 = 7$. Answer: 783.
16) **Choice D is correct.** CC.2.3.3.A.2 8 batches with 3 eggs each means 8 groups of 3. So $8 \times 3 = 24$ eggs.
17) **Choice C is correct.** CC.2.4.3.A.5 $7 \times 5 = 35$ square units.
18) **Choice D is correct.** CC.2.2.3.A.2 The picture shows 3 groups with 5 circles in each group, so the matching equation is $3 \times 5 = \square$.
19) **The correct answer is** 540. CC.2.4.3.A.2 The ones digit is 7. Since $7 \geq 5$, round up: 537 rounds to 540.
20) **Choice B is correct.** 1.3.C The dot is at the second tick out of four equal parts, so it is $\frac{2}{4}$.
21) **Choice A is correct.** CC.2.4.3.A.2 From 7 : 05 to 8 : 05 is 60 minutes. $95 - 60 = 35$ more minutes. 8 : 05 + 35 min = 8 : 40 PM.
22) **Choice D is correct.** CC.2.2.3.A.4 Multiply shelves by books per shelf: $8 \times 7 = 56$ books. Add new books: $56 + 6 = 62$ books total.
23) **The correct answer is** 35 **sq cm.** CC.2.3.3.A.2 Area = length × width, so $7 \times 5 = 35$ square centimeters.
24) **Choice B is correct.** CC.2.4.3.A.5 The square has side length 4. Area = $4 \times 4 = 16$ square units.
25) **Choice A is correct.** CC.2.3.3.A.2 Rectangle A is divided into 4 equal parts with 1 shaded, which is $\frac{1}{4}$. Rectangle B has unequal parts, so it does not show $\frac{1}{4}$.
26) **Choice C is correct.** CC.2.4.3.A.4 At $2\frac{3}{4}$, there are exactly 2 X's.
27) **Choice A is correct.** CC.2.3.3.A.2 The number line shows repeated subtraction of 3 four times, so $12 \div 3 = 4$.
28) **Choice A is correct.** CC.2.2.3.A.3 From $6 \times 9 = 54$, one related division equation is $54 \div 6 = 9$ (the answer is the factor 9). Option B reverses correctly but is also valid; A is the expected answer. Options C and D use wrong operations.
29) **Choice B is correct.** CC.2.3.3.A.2 The vertical part has 3 unit squares. The horizontal part has 2 more unit squares. Total: $3 + 2 = 5$ unit squares cover this L-shaped figure.
30) **The correct answer is** 48 **square units.** CC.2.4.3.A.5 $8 \times 6 = 48$ square units.

Hi, Curious Scientist!

◇ 10 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!

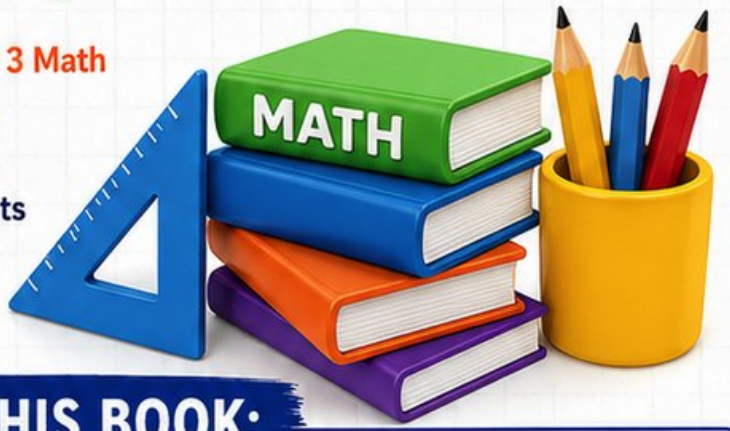
If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Math Scientist

PRACTICE TODAY. SUCCEED TOMORROW!

Give your child the advantage they need in Grade 3 Math with 10 full-length practice tests that build skills, boost confidence, and improve results. Designed to mirror real test formats, this book helps students master essential math concepts and feel ready for any challenge.



INSIDE THIS BOOK:

10 Full-Length Practice Tests

Realistic tests that simulate the look and feel of actual Grade 3 math assessments.

Standards-Aligned

Covers all essential Grade 3 math topics based on current learning standards.

Build Skills & Confidence

Strengthens problem-solving, critical thinking, and test-taking skills with every practice.

Track Progress & Improve

Identify strengths and weaknesses to focus on what matters most.

Prepare for Success

Better preparation leads to higher scores and brighter futures.

COVERS ALL KEY TOPICS

- Whole Numbers & Operations
- Fractions & Decimals
- Algebraic Thinking
- Geometry
- Measurement & Data
- Graphing & Data Analysis
- Number Patterns
- Word Problems
- Ratio & Proportion
- Perimeter, Area & Volume
- And More!

Visit testinar.com/math3 for more Grade 3 math resources and practice materials!

THE MORE THEY PRACTICE, THE BETTER THEY PERFORM.

Help your child build a strong foundation and achieve their best in math!

PRACTICE PREPARE SUCCEED!

Designed for Grade 3 Students

Build Strong Math Skills

Practice with Purpose