

# 7

# Pennsylvania

## PSSA

## GRADE 4 MATH

## PRACTICE TESTS

Standards-Aligned Review with  
Mixed Practice and Answer Key



7 Full-Length  
Practice Tests



Standards-  
Aligned



Build Confidence  
and Skills



Mixed Question  
Types

**ANSWER  
KEY**

**INCLUDED**

$$\begin{array}{r} 25 \\ +37 \\ \hline 62 \end{array}$$

$$\begin{array}{r} 8 \times 7 \\ = \\ 56 \end{array}$$

# 7 Pennsylvania PSSA Grade 4 Math Practice Tests

*Standards-Aligned Review with Mixed Practice and Answer Key*



Seven complete 30-question Grade 4 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**



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# Welcome, Pennsylvania Math Explorer!

Seven steady rounds on the Keystone State math route

This book gives you seven full Grade 4 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.

Read

Plan

Check

## 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?

Seven tests, 210 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 5–7	Stamina rounds for mixed review, neat work, and flexible strategies.
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.



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For more practice  
& answers

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1) Divide both the numerator and denominator of  $\frac{12}{16}$  by 4. What fraction do you get?

- A.  $\frac{8}{12}$
- B.  $\frac{4}{12}$

- C.  $\frac{6}{8}$
- D.  $\frac{3}{4}$

2) A pizza was cut into 12 slices. Marcus ate  $\frac{3}{12}$  of the pizza and Sofia ate  $\frac{4}{12}$ . What fraction of the pizza remains?

- A.  $\frac{7}{12}$
- B.  $\frac{5}{12}$

- C.  $\frac{1}{12}$
- D.  $\frac{12}{12}$

3) Which statement about the letter *D* is true?

- A. It has 1 line of symmetry
- B. It has 2 lines of symmetry

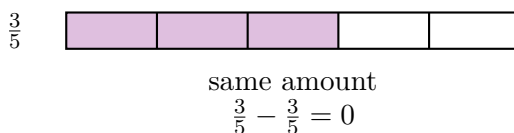
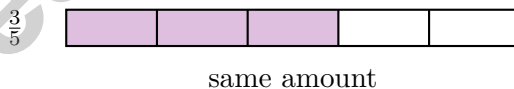
- C. It has no line of symmetry
- D. It has 4 lines of symmetry

4) Which number sentence correctly shows decomposing a fraction into unit fractions?

- A.  $\frac{6}{8} = \frac{1}{8} + \frac{5}{8}$
- B.  $\frac{6}{8} = \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}$

- C.  $\frac{6}{8} = \frac{2}{8} + \frac{2}{8} + \frac{2}{8}$
- D.  $\frac{6}{8} = \frac{6}{16}$

5) Which two fractions have a difference of 0?



- A.  $\frac{4}{8}$  and  $\frac{3}{8}$
- B.  $\frac{6}{6}$  and  $\frac{4}{6}$

- C.  $\frac{3}{5}$  and  $\frac{3}{5}$
- D.  $\frac{5}{12}$  and  $\frac{7}{12}$

6) An angle of  $150^\circ$  is split into two parts. One part measures  $85^\circ$ . What does the other part measure?

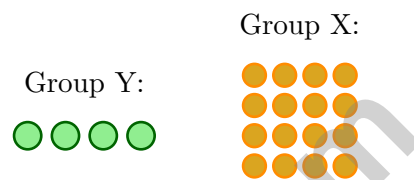
A.  $65^\circ$

C.  $235^\circ$

B.  $75^\circ$

D.  $85^\circ$

7) Look at the two groups. How many times as many objects are in Group X as in Group Y?



A. 2 times

C. 8 times

B. 6 times

D. 4 times

8) An input-output pattern is shown:

Input	6	7	8	9
Output	12	14	16	?

What is the output when the input is 9?

A. 17

C. 19

B. 20

D. 18

9) There are 144 meters of rope to cut into 12 equal pieces. How many meters long is each piece?



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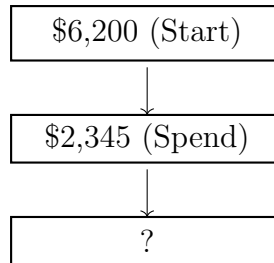
10) Which of these is NOT equivalent to 0.3?

A.  $\frac{3}{10}$

B. 0.30

C.  $\frac{30}{100}$

D.  $\frac{3}{100}$



Marcus has \$6,200. He spends \$2,345. How much money does he have left?

A. \$3,855

B. \$3,945

C. \$4,055

D. \$3,955

12) The perimeter of a rectangle is 38 centimeters. The length is 11 centimeters. What is the width?

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13) What is  $2,184 \div 7$ ?

A. 312

B. 302

C. 319

D. 322



1) A water jug contains 3 liters. How many milliliters is this?

- A. 300  
 B. 3,000

- C. 30,000  
 D. 300,000

2) Which type of angle would you find at the corner of a picture frame?

- A. Acute angle  
 B. Right angle

- C. Obtuse angle  
 D. Straight angle

3) Look at this number: 56,789. What is the value of the hundreds digit?

- A. 7  
 B. 70

- C. 700  
 D. 7,000

4) What is  $3 \times 807$ ?

- A. 2321  
 B. 2121

- C. 2521  
 D. 2421

5) Which is the smallest fraction?

- A.  $\frac{2}{3}$   
 B.  $\frac{2}{4}$

- C.  $\frac{2}{6}$   
 D.  $\frac{2}{5}$

6) Which two models show equivalent fractions?

A: 

B: 

C: 

- A. Models A and B  
 B. All three

- C. Models B and C  
 D. Models A and C

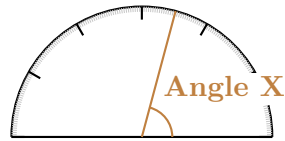


- 7) An angle measuring  $112^\circ$  is separated into two parts. If one part is  $63^\circ$ , what is the measure of the other part?
- A.  $49^\circ$                        C.  $63^\circ$   
 B.  $175^\circ$                        D.  $56^\circ$
- 8) A figure that has more than 4 lines of symmetry must be which of the following?
- A. A triangle                       C. A regular polygon with 5 or more sides or a circle  
 B. A quadrilateral                       D. A square
- 9) Which statement is true?
- A.  $9 \times \frac{1}{9} = 0$                        C.  $9 \times \frac{1}{9} = \frac{9}{1}$   
 B.  $9 \times \frac{1}{9} = 1$                        D.  $9 \times \frac{1}{9} = 9$
- 10) Sam has 5 liters of juice. He uses 2 liters to make punch. How many liters of juice does he have left?
- A. 2 L                       C. 5 L  
 B. 3 L                       D. 7 L
- 11) How many unit fractions of  $\frac{1}{7}$  make  $\frac{6}{7}$ ?



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1)



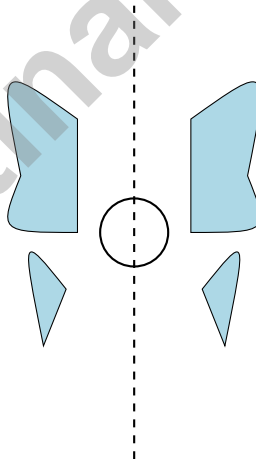
What is the best estimate of the angle shown as Angle X?

- A. About 60 degrees
- B. About 75 degrees
- C. About 90 degrees
- D. About 120 degrees

2) How many  $45^\circ$  angles fit into a full circle?

- A. 4
- B. 6
- C. 8
- D. 12

3) A butterfly wing is drawn below with a vertical dashed line down the middle. How many lines of symmetry does a butterfly have?



- A. 0
- B. 1
- C. 2
- D. Many



4) What is  $\frac{6}{10} - \frac{1}{10}$ ?

A.  $\frac{5}{10}$

B.  $\frac{7}{10}$

C.  $\frac{5}{20}$

D.  $\frac{1}{10}$

5) Mia weighs 42 pounds. Her dog weighs 18 pounds. How much more does Mia weigh than her dog?

A. 24 pounds

B. 60 pounds

C. 18 pounds

D. 42 pounds

6) Which pattern shows only odd numbers?

A. 2, 4, 6, 8, 10

B. 1, 3, 5, 7, 9

C. 2, 3, 4, 5, 6

D. 5, 10, 15, 20, 25

7) How many factor pairs does 35 have?

8) Three runners completed different distances. Ellie ran  $\frac{5}{8}$  of a mile, Fiona ran  $\frac{3}{5}$  of a mile, and Gina ran  $\frac{7}{10}$  of a mile. Who ran the farthest?

A. Ellie

B. Fiona

C. Gina

D. Ellie and Fiona ran the same



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## Practice Test Answer Keys

**How to use this section with a Grade 4 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.** (1.4.C) Divide both numerator and denominator by 4:  $\frac{12}{16} = \frac{12 \div 4}{16 \div 4} = \frac{3}{4}$ .
- 2) **Choice B is correct.** (CC.2.1.4.C.1) The pizza is cut into 12 slices. Step 1: Add the slices eaten:  $\frac{3}{12} + \frac{4}{12} = \frac{7}{12}$ . Step 2: Subtract from the whole:  $\frac{12}{12} - \frac{7}{12} = \frac{5}{12}$  remains.
- 3) **Choice A is correct.** (CC.2.3.4.A.3) The letter *D* has a straight line on the left and a curved bulge on the right. A horizontal line across the middle balances the top curve with the bottom curve. The answer is It has 1 line of symmetry.
- 4) **Choice B is correct.** (CC.2.1.4.C.1) To decompose means to break apart. Breaking  $\frac{6}{8}$  into unit fractions means showing it as a sum of  $\frac{1}{8}$ 's:  $\frac{6}{8} = \underbrace{\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8}}_{6 \text{ copies}}$ .
- 5) **Choice C is correct.** (CC.2.1.4.C.1) A difference of 0 means the fractions are identical. A:  $\frac{4}{8} - \frac{3}{8} = \frac{1}{8}$  (not 0). B:  $\frac{6}{6} - \frac{4}{6} = \frac{2}{6}$  (not 0). C:  $\frac{3}{5} - \frac{3}{5} = 0$  ✓. D:  $\frac{5}{12} - \frac{7}{12} =$  negative (not 0).
- 6) **Choice A is correct.** (CC.2.4.4.A.6) To find the missing part, subtract what you know from the whole angle:  $150^\circ - 85^\circ = 65^\circ$ .
- 7) **Choice D is correct.** (CC.2.4.4.A.4) Divide the larger group by the smaller:  $16 \div 4 = 4$ . So Group X has 4 times as many objects as Group Y.
- 8) **Choice D is correct.** (CC.2.2.4.A.2) Multiply each input by 2:  $6 \times 2 = 12$ ,  $8 \times 2 = 16$ , so  $9 \times 2 = 18$ .
- 9) **The correct answer is 12 m.** (CC.2.4.4.A.1) There are 144 meters of rope to cut into 12 pieces. Divide:  $144 \div 12 = 12$  meters. Each piece is 12 meters long.
- 10) **Choice D is correct.** (CC.2.1.4.C.3) Three tenths can be written as 0.3, 0.30,  $\frac{3}{10}$ , or  $\frac{30}{100}$ . But  $\frac{3}{100} = 0.03$  is only 3 hundredths, so it doesn't match.
- 11) **Choice A is correct.** (1.4.B.1) Marcus spends money from his total, so we subtract.  $6,200 - 2,345 = 3,855$  dollars.
- 12) **The correct answer is 8 cm.** (CC.2.2.4.A.2) Using  $P = 2\ell + 2w = 38$  with  $\ell = 11$ :  $2(11) + 2w = 38$ . Solve:  $22 + 2w = 38$ , so  $2w = 16$ , thus  $w = 8$  cm.
- 13) **Choice A is correct.** (CC.2.1.4.B.2) Long division:  $2 \div 7 = 0$  r2, bring down the 1 to get  $21 \div 7 = 3$ , bring down the 8 to get  $8 \div 7 = 1$  r1, bring down the 4 to get  $14 \div 7 = 2$ . The answer is **312**.
- 14) **Choice D is correct.** (4.4.A.4) The shortest measurement is at  $\frac{0}{8}$  and the longest is at  $\frac{6}{8}$ . The difference is  $\frac{6}{8} - \frac{0}{8} = \frac{6}{8}$ .
- 15) **Choice B is correct.** (CC.2.3.4.A.3) The vertex is the point where the two rays of an angle meet.
- 16) **The correct answer is A, C.** (CC.2.2.4.A.1) Two steps lead to two true statements! Step 1:  $240 \div 5 = 48$  pencils per grade—that matches choice A. Step 2:  $48 - 15 = 33$  left after practice—that matches choice C. Choice B (50) and D (35) come from wrong arithmetic, and E confuses “240 distributed” with “300 total.”
- 17) **Choice B is correct.** (CC.2.1.4.C.2) Eight children each get  $\frac{1}{2}$  sandwich. We multiply:  $8 \times \frac{1}{2} = \frac{8}{2} = 4$  sandwiches are needed.
- 18) **Choice D is correct.** (1.4.C) Which is NOT  $\frac{1}{2}$ ? The first three all reduce to  $\frac{1}{2}$ :  $\frac{3}{6} = \frac{4}{8} = \frac{5}{10} = \frac{1}{2}$ . But  $\frac{2}{5}$  is less than half.
- 19) **Choice D is correct.** (CC.2.2.4.A.2) Try the small primes: 19 is odd (not  $\div 2$ ); digits  $1 + 9 = 10$  (not  $\div 3$ ); doesn't end in 0 or 5 (not  $\div 5$ );  $7 \times 2 = 14$ ,  $7 \times 3 = 21$  (no 7). The only factors of 19 are 1 and 19 itself. *Exactly two factors* = **prime**.
- 20) **Choice A is correct.** (CC.2.1.4.C.1) Check choice A:  $2\frac{1}{2} + 2 = 4\frac{1}{2}$ . Correct! Add wholes:  $2 + 2 = 4$ , and keep the fraction:  $\frac{1}{2}$ . The others give different answers: B equals 3, C equals 5, D equals  $3\frac{1}{2}$ .
- 21) **Choice D is correct.** (CC.2.1.4.B.1) From the chart: hundred-thousands:  $2 \rightarrow 200,000$ , ten-thousands:  $1 \rightarrow 10,000$ , thousands:  $4 \rightarrow 4,000$ , hundreds:  $5 \rightarrow 500$ , tens:  $3 \rightarrow 30$ , ones:  $7 \rightarrow 7$  ✓
- 22) **Choice C is correct.** (CC.2.1.4.C.3) To be between 0.4 and 0.5, a decimal must have tenths = 4. But 0.55 has tenths = 5, so it's not in the range.
- 23) **Choice A is correct.** (3.4.A.2) The arrows clearly mark exactly one pair of parallel sides, which is the defining characteristic of a trapezoid. The other two sides are not parallel. The answer is **A**.
- 24) **Choice A is correct.** (CC.2.1.4.C.3) Convert both endpoints:  $\frac{4}{10} = \frac{40}{100}$  and  $\frac{6}{10} = \frac{60}{100}$ . The fraction  $\frac{45}{100}$  falls between them.



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Math Detective at Work

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## Hi, Math Detective!

◇ You did such a great job! You finished 7 tests like a real detective. You found the clues, used your tools, and solved the math. ◇

★ **Detectives know:** good work takes time. You took your time. You looked carefully. You found the answers! ★

### Your Detective Skills

- **Sharp Eyes:** You notice the small details.
- **Smart Plans:** You pick the right way to solve.
- **Brave Heart:** You try even when it's tricky.
- **Steady Work:** You finish what you start.

**Detective tip:** on test day, look carefully at each problem. Underline important words. Then solve like the detective you are!

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

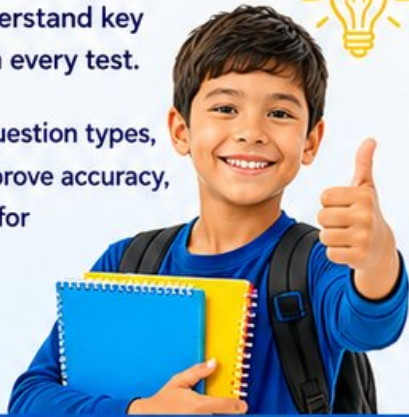
**Jay Daie**

Your Math Detective Helper

# 7 FULL-LENGTH TESTS TO MASTER GRADE 4 MATH!

This **Grade 4 Math Practice Tests** book provides the practice your child needs to build strong math skills, understand key concepts, and gain the confidence to succeed on every test.

With 7 full-length practice tests, a wide range of question types, and detailed answer explanations, students will improve accuracy, strengthen problem-solving abilities, and prepare for classroom success and beyond.



## PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Confidence Building
- ✓ Skill Reinforcement

★ CONFIDENCE IN MATH.  
SUCCESS FOR LIFE.

## WHAT STUDENTS WILL GAIN



### Stronger Math Skills

Build a solid foundation through targeted practice and review.



### Better Problem Solving

Develop logical thinking and effective solution strategies.



### Test Confidence

Become familiar with test-style questions and formats.



### Track Progress

Measure growth across multiple practice tests.



### Academic Success

Strengthen skills needed for future learning.

$$\begin{array}{r} 45 \\ -17 \\ \hline 28 \end{array}$$



$$7 \times 8 = 56$$

## TOPICS COVERED

- ✓ Place Value & Number Sense
- ✓ Multi-Digit Addition & Subtraction
- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals & Comparing Numbers
- ✓ Geometry & Shapes
- ✓ Measurement & Data
- ✓ Perimeter & Area
- ✓ Word Problems
- ✓ Patterns & Algebraic Thinking
- ✓ Graphs & Data Interpretation
- ✓ And More!



Visit [testinar.com/math4](https://testinar.com/math4) for additional Grade 4 math resources and practice materials.

## MORE PRACTICE. GREATER RESULTS.

Give your child the tools needed to develop strong math skills, confidence, and a positive attitude toward learning.



7 Full-Length Practice Tests



Standards-Aligned



Build Confidence and Skills



Mixed Question Types



Answer Key Included