

8

Pennsylvania

PSSA

GRADE 4

PRACTICE TESTS



1

$2 \times 3 = 6$

3

5

$2 \times 3 = 6$

2

4



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

**COMPREHENSIVE
TEST PREP**

Includes Solutions

8 Pennsylvania PSSA Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Eight 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!

Eight steady rounds on the Keystone State math route

This book gives you eight 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?

Eight tests, 240 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 6–8	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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1) Which decimal is equivalent to $\frac{45}{100}$?

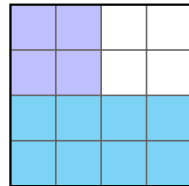
A. 0.45

C. 4.5

B. 0.54

D. 45.0

2) A 4×4 grid has 16 equal squares. The shaded part is decomposed into two regions:



Which shows the decomposition?

A. $\frac{4}{16} + \frac{8}{16}$

C. $\frac{12}{16} + \frac{4}{16}$

B. $\frac{6}{16} + \frac{10}{16}$

D. $\frac{8}{16} + \frac{8}{16}$

3) Look at the bar model below. Which equation matches?

Noah's cards: 4



Ava's cards: ?

Noah has 4 cards. Ava has 4 times as many cards as Noah. Which equation shows the number of cards Ava has?

A. $Ava = 4 + 4$

C. $Ava = 4 - 4$

B. $Ava = 4 \div 4$

D. $Ava = 4 \times 4$

4) What is $\frac{1}{4} + \frac{3}{4}$?

A. $\frac{4}{8}$

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

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

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

5) If a dot rotates $\frac{1}{8}$ of a full turn, how many degrees does it move?

A. 30°

B. 35°

C. 45°

D. 60°

6) A container holds 2 kilograms of rice. How much rice is in 7 identical containers?

A. 5 kg

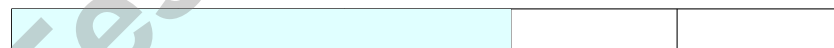
B. 9 kg

C. 14 kg

D. 12 kg

7) A recipe uses $\frac{3}{4}$ cup of flour and $\frac{2}{3}$ cup of sugar. Which amount is greater?

$\frac{6}{10}$ distance



8)

A runner has completed $\frac{6}{10}$ of the race. How much of the race remains?

A. $\frac{6}{10}$

B. $\frac{4}{10}$

C. $\frac{10}{10}$

D. $\frac{2}{10}$



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1) A clock shows 3 o'clock. The hour hand and minute hand form an angle. What type of angle is it?

A. Acute

C. Obtuse

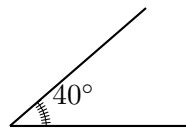
B. Right

D. Straight

2) Look at the pattern: 4, 8, 12, 16, 20, ... What is the 12th term?

3) Ming read 1,234 pages in one month and 2,567 pages the next month. How many pages did she read in both months combined?

4)



An angle turns through 40 one-degree angles. What is the measure of this angle?

A. 40°

C. 39°

B. 41°

D. 80°



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5) A protractor shows that two adjacent angles measure 63° and 117° . What is their sum?

A. 54°

C. 180°

B. 117°

D. 200°

6) If you turn $\frac{1}{12}$ of the way around a circle, how many degrees do you turn?

A. 20°

C. 45°

B. 30°

D. 60°

7) A recipe calls for 8 cups of flour. If the baker wants to make 4 batches, how many cups of flour are needed?

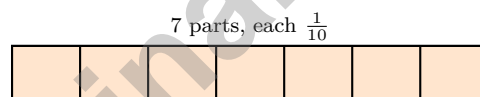
A. 12 cups

C. 32 cups

B. 24 cups

D. 36 cups

8) In a fraction bar, 7 equal parts are shaded. If each part is $\frac{1}{10}$, what fraction is shaded?



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

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

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

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

9) Noah ate $\frac{5}{8}$ of a pizza. Which sentence shows one way to decompose what he ate?

A. He ate $\frac{2}{8}$ and $\frac{3}{8}$.

C. He ate $\frac{2}{8}$ and $\frac{4}{8}$.

B. He ate $\frac{1}{8}$ and $\frac{3}{8}$.

D. He ate $\frac{3}{8}$ and $\frac{3}{8}$.



1) A toy store received 2,016 action figures in a shipment. They need to pack them into 9 boxes equally. How many figures go in each box?

A. 224

C. 220

B. 228

D. 216



2) $\frac{3}{5}$ water left removed
 $\frac{3}{5}$ filled, then $\frac{1}{5}$ removed

A container divided into 5 equal parts is $\frac{3}{5}$ filled with water. If $\frac{1}{5}$ of the water is removed, what fraction of the container remains filled?

A. $\frac{1}{5}$

C. $\frac{4}{5}$

B. $\frac{2}{5}$

D. $\frac{3}{5}$

3) Which number correctly matches all three forms?

A. Standard: 142,805; Word: “One hundred forty-two thousand, eight hundred five”; Expanded: $100,000 + 40,000 + 2,000 + 800 + 5$

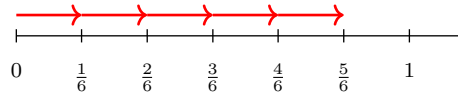
B. Standard: 142,805; Word: “Fourteen thousand, two hundred five”; Expanded: $100,000 + 40,000 + 2,000 + 800 + 5$

C. Standard: 124,805; Word: “One hundred forty-two thousand, eight hundred five”; Expanded: $100,000 + 20,000 + 4,000 + 800 + 5$

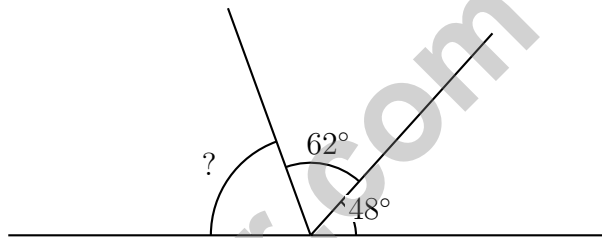
D. Standard: 142,850; Word: “One hundred forty-two thousand, eight hundred fifty”; Expanded: $100,000 + 40,000 + 2,000 + 800 + 5$



- 4) A number line shows unit-fraction jumps of $\frac{1}{6}$ starting at 0. After 5 jumps, you are at position:



- A. $\frac{3}{6}$
 C. $\frac{5}{6}$
 B. $\frac{4}{6}$
 D. $\frac{6}{6}$
- 5) A straight angle of 180° is divided by two rays into three parts measuring 48° , 62° , and another unknown part. What is the measure of the unknown part?



- A. 110°
 C. 14°
 B. 70°
 D. 90°
- 6) A spinner makes a $\frac{1}{4}$ turn. How many degrees does it rotate?
- A. 45°
 C. 90°
 B. 60°
 D. 120°
- 7) A student wrote: $\frac{3}{10} + \frac{3}{100} = \frac{6}{110}$. What is the correct answer?

- A. $\frac{33}{100}$
 C. $\frac{6}{110}$ (student is correct)
 B. $\frac{6}{100}$
 D. $\frac{30}{100}$



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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

- Choice A is correct.** (CC.2.1.4.C.3) The fraction $\frac{45}{100}$ means 45 hundredths, which equals 0.45.
- Choice A is correct.** (CC.2.1.4.C.1) Count the shaded squares. Light: 4 squares out of 16. Dark: 8 squares. Together: $4 + 8 = 12$, so $\frac{4}{16} + \frac{8}{16} = \frac{12}{16} \checkmark$.
- Choice D is correct.** (CC.2.4.4.A.4) Look at the picture: Ava's bar is split into 4 equal pieces, each the same length as Noah's bar. That's exactly what "4 times as many" means—so we multiply: Ava = $4 \times 4 = 16$ cards.
- Choice B is correct.** (CC.2.1.4.C.1) Add numerators: $1 + 3 = 4$. We get $\frac{4}{4}$, which is one whole. When the top and bottom match, it equals 1.
- Choice C is correct.** (CC.2.3.4.A.3) One-eighth of the circle is $\frac{1}{8} \times 360^\circ = 45^\circ$.
- Choice C is correct.** (CC.2.4.4.A.1) Each container holds 2 kilograms of rice. With 7 containers, multiply: $2 \times 7 = 14$ kg. The total is 14 kilograms.
- The correct answer is $\frac{3}{4}$.** (1.4.C) Find common denominator 12: $\frac{3}{4} = \frac{9}{12}$ and $\frac{2}{3} = \frac{8}{12}$. Since $9 > 8$, $\frac{3}{4}$ cup of flour is greater.
- Choice B is correct.** (CC.2.1.4.C.1) The picture shows a runner's progress on the race. She completed the blue portion, so subtract from the whole track: $\frac{10}{10} - \frac{6}{10} = \frac{4}{10}$ of the race remains.
- Choice C is correct.** (4.4.A.4) Count every X mark on the line plot: $2 + 0 + 3 + 0 + 1 = 6$ data points in total.
- Choice B is correct.** (CC.2.1.4.C.3) Think of it as 3 tenths. We can write $\frac{3}{10} = \frac{30}{100} = 0.30 = 0.3$.
- The correct answer is 8.** (CC.2.1.4.B.1) Counting from the right in 130,800: ones, tens, hundreds. The hundreds digit is 8 \checkmark
- Choice D is correct.** (1.4.B.1) We're rounding to the nearest hundred. Look at the tens digit: 4. Since $4 < 5$, we round DOWN. The hundreds digit stays at 3, so the answer is **9,300**. \checkmark
- Choice D is correct.** (1.4.C) The numerator changes from 3 to 6—that's multiply by 2. To keep fractions equivalent, multiply the denominator by 2 also: $4 \times 2 = 8$.
- Choice D is correct.** (CC.2.2.4.A.1) Two separate questions in one—both use multiplication! Step 1: total weight = 3 bags \times 16 ounces = 48 ounces. Step 2: total money = 3 bags \times \$4 = \$12. So the answer must include both pieces: 48 ounces and \$12.
- Choice D is correct.** (CC.2.1.4.C.2) We take 2 copies of $\frac{4}{5}$. Multiply: $2 \times \frac{4}{5} = \frac{2 \times 4}{5} = \frac{8}{5} = 1\frac{3}{5}$. The answer is **$1\frac{3}{5}$** .
- The correct answer is A, C.** (CC.2.3.4.A.3) Statement A is correct: **72** one-degree angles measure **72°** . Statement C is correct: a full circle measures **360°** with **360** one-degree angles. Statement B is wrong (straight angle is 180°). Statement D is wrong (30 one-degree angles is 30° , not 60°). Statement E is wrong (right angle is 90° , not 45°).
- Choice C is correct.** (CC.2.1.4.B.2) Decompose 328: $4 \times (300 + 20 + 8) = 1200 + 80 + 32 = \mathbf{1312}$.
- Choice C is correct.** (CC.2.1.4.B.1) In 3,472, the digit 4 is in the hundreds place. Its value is $4 \times 100 = \mathbf{400}$. \checkmark
- Choice A is correct.** (CC.2.1.4.B.2) Ask: $8 \times ? = 360$. Since $8 \times 45 = 360$, we need **45** vans for all the students.
- The correct answer is 3.** (CC.2.1.4.C.2) The denominator 10 tells us the unit fraction is $\frac{1}{10}$. The numerator 3 tells us how many of these unit fractions we have. So there are **3** tenths in $\frac{3}{10}$.
- Choice B is correct.** (CC.2.4.4.A.1) 1 kilometer = 1,000 meters. So $4 \text{ km} = 4 \times 1,000 = 4,000 \text{ m}$.
- Choice B is correct.** (3.4.A.1) The vertex is simply the corner point where the two rays come together to form the angle — it's like the tip of a pencil or the corner of a piece of paper.
- Choice A is correct.** (CC.2.4.4.A.6) One ray sits on the baseline at 0° , and the other ray points to the 30° mark. Since $30^\circ < 90^\circ$, this is an acute angle. The answer is **30** degrees.
- Choice B is correct.** (3.4.A.2) Both rhombuses and squares have four equal sides and two pairs of parallel sides. However, a rhombus does not require right angles, while a square must have them. This is the key difference. The answer is **B**.
- Choice B is correct.** (CC.2.1.4.C.1) Subtract the wholes: $4 - 1 = 3$. Subtract the fractions: $\frac{4}{5} - \frac{2}{5} = \frac{2}{5}$. She used **$3\frac{2}{5}$** meters.
- Choice A is correct.** (CC.2.1.4.C.2) Six parts, each one $\frac{1}{9}$: $6 \times \frac{1}{9} = \frac{6}{9}$.



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Hi, Math Pilot!

◇ 8 flights done in your math airplane. You have flown through smooth skies and bumpy clouds. You are a real pilot now. ◇

★ **Pilots know:** a good check before takeoff makes a smooth flight. Before each problem, do your check: read, plan, solve, verify. ★

Pilot Skills

- **Pre-Flight:** You read the question carefully.
- **Steering:** You pick the right strategy.
- **Smooth Flight:** You stay calm in long tests.
- **Landing:** You always check your final answer.

Pilot tip: on test day, take off one problem at a time. Trust your training. You earned your wings!

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

Jay Daie

Your Math Pilot

8 PRACTICE TESTS. PREPARE. PRACTICE. SUCCEED!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master essential concepts, and boost confidence for success in the classroom and beyond.

Featuring 8 full-length practice tests, a variety of question types, and detailed answer explanations, this book provides the practice and support students need to improve accuracy, strengthen problem-solving abilities, and achieve their best.

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