

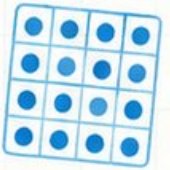
10

$$7 \times 8 = 56$$

$$\begin{array}{r} 32 \\ \times 6 \\ \hline 192 \end{array}$$



$$\frac{3}{4}$$



Pennsylvania



PSSA

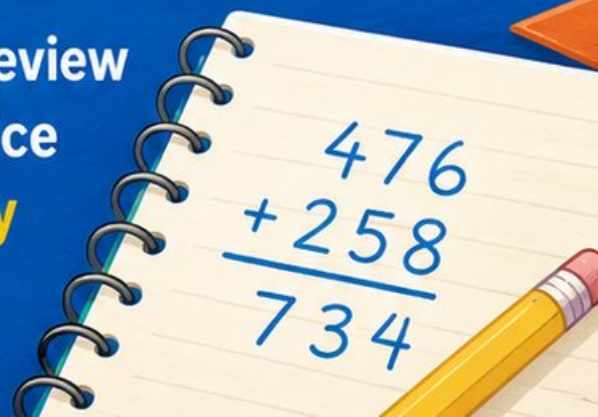


GRADE 4

MATH

PRACTICE TESTS

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



10 Pennsylvania PSSA Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten 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!

Ten steady rounds on the Keystone State math route

This book gives you ten 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?

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.



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& answers

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- 1) A line plot shows student jump distances in eighths of a foot. The data are: $\frac{2}{8}$ ft, $\frac{3}{8}$ ft, $\frac{5}{8}$ ft, $\frac{2}{8}$ ft, $\frac{3}{8}$ ft, $\frac{3}{8}$ ft, $\frac{5}{8}$ ft. What is the difference between the longest and shortest jump distances?

- 2) How many degrees are in $\frac{3}{4}$ of a turn?

A. 180°
 B. 225°

C. 270°
 D. 300°

- 3) A bake sale sells 6 trays of cupcakes. Each tray has 24 cupcakes. They also have 18 leftover cupcakes from yesterday. How many cupcakes do they have in total?

A. 144
 B. 140

C. 156
 D. 162

- 4) A shape pattern uses triangles and dots arranged like this:



Figure 1



Figure 2



Figure 3

If the pattern continues, how many dots are in Figure 5?

A. 8
 B. 14

C. 12
 D. 10



5) Ava has 8,234 stickers. She gives 2,456 stickers to her friend. How many stickers does Ava have left?

A. 5,778

C. 6,778

B. 5,678

D. 6,678

6) Leo has \$50. He buys a shirt for \$12 and pants for \$28. How much money does he have left?

A. \$10

C. \$22

B. \$16

D. \$40

7) Noah baked cookies and ate $\frac{2}{6}$ of them. His sister ate $\frac{3}{6}$. How many cookies were eaten?

A. $\frac{5}{12}$ of the cookies

C. $\frac{1}{6}$ of the cookies

B. $\frac{5}{6}$ of the cookies

D. All cookies

8) A leaf is drawn below with a vertical line down the middle. How many lines of symmetry does this leaf have?



A. 0

C. 2

B. 1

D. Many



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9) Compare: $\frac{3}{8}$ and $\frac{3}{10}$.

A. $\frac{3}{8} < \frac{3}{10}$

B. Cannot compare

C. $\frac{3}{8} = \frac{3}{10}$

D. $\frac{3}{8} > \frac{3}{10}$

10) How many tenths equal $\frac{20}{100}$?

A. 2 tenths

B. 20 tenths

C. 200 tenths

D. 0.2 tenths

11) Mason organized his trading cards by place value. He has 8 cards in the thousands group and 8 cards in the tens group. Which statement is true?

A. The thousands cards have a value 1,000 times the tens cards.

B. The tens cards have a value 10 times the thousands cards.

C. The values are equal.

D. The thousands cards have a value 100 times the tens cards.

12) Which pair of items from a classroom has right angles?

A. A pencil and a ball

B. A desk and a book

C. A rope and a ball

D. A clock and a spiral notebook

13) A restaurant has 8 small tables. It has 3 times as many medium tables as small tables. How many medium tables does it have?



1) Ava has two bags of stickers. One bag has 4 stickers out of 8 total. The other bag has 2 stickers out of 4 total. Are the fractions of stickers equivalent?

A. Yes, both are $\frac{1}{2}$

C. No, the fractions are different

B. Yes, both are $\frac{1}{4}$

D. Cannot be determined

2) A clock hand rotates from 12 o'clock to 3 o'clock (a 90° rotation), then continues to rotate an additional 45° . What is the total angle of rotation?

3) Which fraction is closest to 1 whole?

A. $\frac{4}{6}$

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

B. $\frac{5}{8}$

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

4) A group has 73 cookies to pack into boxes of 12. How many complete boxes will they have? How many cookies will be left over?

A. 6 boxes, 2 left

C. 7 boxes, 1 left

B. 5 boxes, 13 left

D. 6 boxes, 1 left

5) Eli has $2\frac{4}{10}$ meters of fabric. He buys $3\frac{5}{10}$ more meters. How much fabric does he have now?

A. $5\frac{9}{10}$ meters

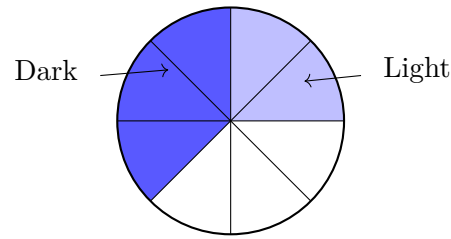
C. $5\frac{8}{10}$ meters

B. 6 meters

D. $6\frac{1}{10}$ meters



6) This pie model shows $\frac{5}{8}$ decomposed into two shaded regions:



Which equation shows this decomposition?

A. $\frac{2}{8} + \frac{3}{8}$
 B. $\frac{3}{8} + \frac{3}{8}$

C. $\frac{4}{8} + \frac{1}{8}$
 D. $\frac{1}{8} + \frac{4}{8}$

7) Diego reads 16 pages of a book each day. If he reads for 5 days, how many pages does he read?

- A. 21
 B. 110

- C. 70
 D. 80

8) How many rays form the sides of an angle?

- A. 1 ray
 B. 2 rays

- C. 3 rays
 D. 4 rays

9) Which time conversion is correct?

- A. 2 hours = 100 minutes
 B. 3 minutes = 180 seconds

- C. 1 day = 1,200 minutes
 D. 4 hours = 250 minutes



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1) Which shows two decompositions where all parts are equal in each decomposition?

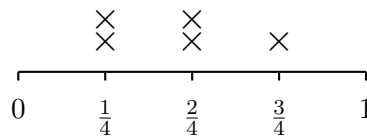
A. $\frac{2}{8} + \frac{2}{8} + \frac{2}{8}$ and $\frac{3}{8} + \frac{3}{8}$

C. $\frac{5}{8} + \frac{1}{8}$ and $\frac{4}{8} + \frac{3}{8}$

B. $\frac{1}{8} + \frac{5}{8}$ and $\frac{2}{8} + \frac{4}{8}$

D. $\frac{4}{8} + \frac{2}{8}$ and $\frac{5}{8} + \frac{1}{8}$

2) Look at the line plot of seed lengths (in inches). How many X marks are above $\frac{2}{4}$ inch?



A. 1

C. 3

B. 2

D. 5

3) A pattern of dots is arranged in rows:



Figure 1



Figure 2



Figure 3

If the pattern continues, how many dots are in Figure 4?

A. 12

C. 18

B. 20

D. 16

4) Ming walks 2 miles to school. How many yards is this?

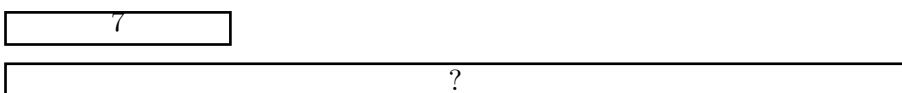
A. 528

C. 3,520

B. 1,056

D. 5,280

- 5) Which is the correct ordering from greatest to least?
- A. 0.74, 0.47, 0.44, 0.77 C. 0.44, 0.47, 0.74, 0.77
- B. 0.77, 0.74, 0.47, 0.44 D. 0.47, 0.44, 0.77, 0.74
- 6) Sophia reads for 15 minutes in the morning and 20 minutes in the evening. How many minutes does she read in total each day?
- A. 5 minutes C. 35 minutes
- B. 25 minutes D. 300 minutes
- 7) On a number line, you start at 0 and make 3 jumps of $\frac{1}{4}$ each. Where do you land?
- A. $\frac{1}{4}$ C. $\frac{3}{4}$
- B. $\frac{2}{4}$ D. $\frac{4}{3}$
- 8) Add: $3,456 + 4,567 = ?$
- A. 8,012 C. 7,923
- B. 7,913 D. 8,023
- 9) All of the following figures have at least one line of symmetry **except** which one?
- A. An equilateral triangle C. A slanted parallelogram with unequal adjacent sides
- B. A rectangle D. An isosceles triangle

- 10) 

Kai bought 7 notebooks for school. His friend bought 4 times as many notebooks. How many notebooks did his friend buy?

- A. 11 C. 35
- B. 22 D. 28



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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

- The correct answer is $\frac{3}{8}$.** (4.4.A.4) The shortest jump is $\frac{2}{8}$ ft and the longest is $\frac{5}{8}$ ft. The difference is $\frac{5}{8} - \frac{2}{8} = \frac{3}{8}$ foot.
- Choice C is correct.** (CC.2.3.4.A.3) Three-quarters of the circle is $\frac{3}{4} \times 360^\circ = 270^\circ$.
- Choice D is correct.** (CC.2.2.4.A.1) Two steps! Step 1: cupcakes from the trays: $6 \times 24 = 144$. Step 2: add the leftovers: $144 + 18 = 162$ cupcakes in total.
- Choice D is correct.** (CC.2.2.4.A.2) Dots in each figure: Figure 1 has 2, Figure 2 has 4, Figure 3 has 6. Each time adds 2. Figure 5 has $6 + 2 + 2 = 10$ dots.
- Choice A is correct.** (1.4.B.1) This word problem asks us to find how many are left, so we subtract. $8,234 - 2,456 = 5,778$ stickers.
- Choice A is correct.** (CC.2.4.4.A.1) Step 1: Find total spent: $12 + 28 = 40$ dollars. Step 2: Subtract from \$50: $50 - 40 = 10$ dollars. Leo has \$10 left.
- Choice B is correct.** (CC.2.1.4.C.1) Noah ate $\frac{2}{6}$ and his sister ate $\frac{3}{6}$. Together: $2 + 3 = 5$ sixths, so $\frac{5}{6}$ of the cookies were eaten.
- Choice B is correct.** (CC.2.3.4.A.3) A leaf usually has a center vein running from tip to stem, with identical bumpy edges on both left and right. A vertical line down that center is a perfect line of symmetry. The answer is 1 line of symmetry.
- Choice D is correct.** (1.4.C) Same numerator (3) means compare denominators: eighths are bigger pieces than tenths, so $\frac{3}{8} > \frac{3}{10}$.
- Choice A is correct.** (CC.2.1.4.C.3) When we simplify, $\frac{20}{100} = \frac{2}{10}$, which equals 2 tenths.
- Choice D is correct.** (CC.2.1.4.B.1) Mason's thousands cards are worth $8 \times 1,000 = 8,000$; tens cards are worth $8 \times 10 = 80$. The ratio is $8,000 \div 80 = 100$ times. ✓
- Choice B is correct.** (CC.2.3.4.A.3) Desks and books have rectangular corners, which are right angles.
- The correct answer is 24.** (CC.2.4.4.A.4) "3 times as many" = multiply by 3. The restaurant has $8 \times 3 = 24$ medium tables.
- Choice B is correct.** (3.4.A.1) Angle Y opens wider than the others — it stretches out the most. Angles X and Z are both small and pointy, while Angle Y is nice and wide.
- The correct answer is B, C.** (CC.2.1.4.B.1) B (word form) and C (expanded) both equal 24,365. A and D both equal 24,356 (wrong). E has ones digit 6 instead of 5 ✓
- Choice A is correct.** (CC.2.2.4.A.2) The rectangle is 5 units long and 3 units wide. Perimeter = $2(5) + 2(3) = 10 + 6 = 16$ units.
- Choice B is correct.** (CC.2.4.4.A.1) Since 1 gallon = 4 quarts, divide: $36 \div 4 = 9$ gallons. The answer is 9 gallons.
- Choice D is correct.** (CC.2.1.4.C.2) The bar model shows two bars, each divided in half with one half shaded in each. This matches $2 \times \frac{1}{2}$, which means 2 copies of $\frac{1}{2}$. The answer is $2 \times \frac{1}{2}$ (Choice D).
- Choice C is correct.** (1.4.B.1) We're rounding to the nearest thousand, so check the hundreds digit of each. Option C (40,499): hundreds digit is $4 < 5$, rounds DOWN to 40,000. ✓ Option A (39,250): hundreds digit $2 < 5$, rounds DOWN to 39,000. Option B (40,750): hundreds digit $7 \geq 5$, rounds UP to 41,000. Option D (40,501): hundreds digit $5 \geq 5$, rounds UP to 41,000.
- Choice A is correct.** (CC.2.1.4.C.3) Roughly four columns (out of 10) are shaded. That's about 40 out of 100 squares: $\frac{40}{100} = 0.40 = 0.4$.
- Choice D is correct.** (CC.2.1.4.B.2) Use partial products: $3 \times (400 + 50 + 6) = 1200 + 150 + 18 = 1368$.
- Choice A is correct.** (CC.2.1.4.C.1) Start at $1\frac{3}{4}$ and jump right by $1\frac{1}{4}$. Add the wholes: $1 + 1 = 2$. Add the fractions: $\frac{3}{4} + \frac{1}{4} = \frac{4}{4} = 1$. Combine: $2 + 1 = 3$.
- Choice B is correct.** (CC.2.1.4.C.2) Three marbles, each weighing $\frac{2}{6}$ ounce, give us $3 \times \frac{2}{6} = \frac{6}{6} = 1$ ounce.
- Choice C is correct.** (CC.2.3.4.A.3) A full turn all the way around a point is 360° , made of 360 one-degree angles.
- Choice A is correct.** (CC.2.1.4.C.1) The baker needs more milk than what's on hand. Convert the mixed number: $1\frac{1}{3} = \frac{4}{3}$. Then subtract: $\frac{4}{3} - \frac{2}{3} = \frac{2}{3}$ cups of milk needed.



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Jay Daie

Your Math Coach

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