

9

Pennsylvania PSSA

GRADE

6

MATH

PRACTICE TESTS

Standards-Aligned Review
Mixed Practice & Answer Key



9 PRINTED TESTS

Realistic practice to build confidence and mastery



DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



BUILD CONFIDENCE

Strengthen problem solving and test-taking skills



9 PRINTED TESTS
+2 ONLINE TESTS

Use these two additional online practice tests for extra review after the printed tests in this book.

**PRACTICE TODAY.
SUCCEED TOMORROW.**



PRACTICE



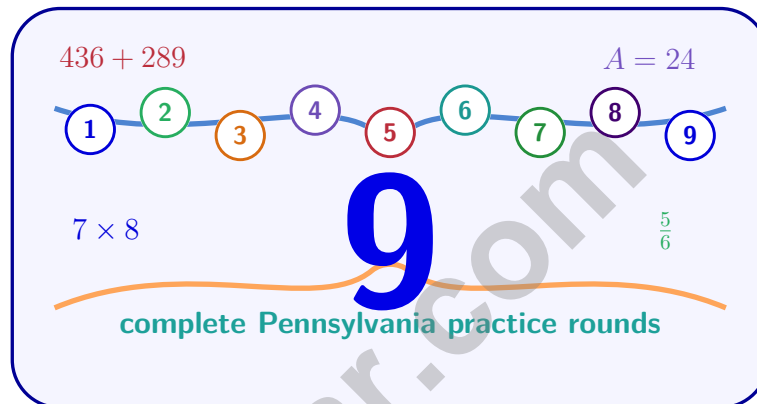
REVIEW



SUCCEED

9 Pennsylvania PSSA Grade 6 Math Practice Tests

Standards-Aligned Keystone Practice Habits for Pennsylvania System of School Assessment



Nine complete 40-question Grade 6 practice rounds for PSSA, built for Keystone practice habits with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Pennsylvania Math Explorer!

Nine focused rounds using Keystone practice habits

This book gives you nine full Grade 6 practice tests for PSSA. Each round uses ridge roads, town squares, and strong step-by-step work as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your Pennsylvania Practice Promise

Use each clue as a keystone: connect facts, solve carefully, and verify the answer.

Read

Plan

Check

How to Use This Book

A nine-session routine for Keystone practice habits

1. **Work in order.** Take one 40-question test at a time in a quiet place.
2. **Preview the skills.** Scan the quick review pages before beginning the first round.
3. **Correct actively.** Retry missed items before reading the full explanation.
4. **Mark confidence.** Put a small star beside problems where your plan felt strong.
5. **Plan the next round.** Use the growth log to choose one habit and one skill to practice.

Pennsylvania review rhythm: After each round, choose one correction habit to hold the next test together.



What Is Inside?

Nine PSSA tests, 360 questions, and a full review path

Part	What You Will Practice
Tests 1–3	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 4–6	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Tests 7–9	Final stamina rounds for mixed review, neat work, and flexible strategy choices.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Keystone practice habits means recognizing the skill even when the next question changes topic, changes format, or asks for an explanation.



Scan me!
For more practice
& answers

Table of Contents

★ Practice Test 1	_____	12
★ Practice Test 2	_____	25
★ Practice Test 3	_____	41
★ Practice Test 4	_____	58
★ Practice Test 5	_____	73
★ Practice Test 6	_____	88
★ Practice Test 7	_____	103
★ Practice Test 8	_____	118
★ Practice Test 9	_____	134
Practice Test Answer Keys	_____	150
Practice Test Answers and Explanations	_____	156

5) A runner's splits for three legs: 12.4 s, 11.8 s, and 13.2 s. What is the total time?

A. 35.4 s

C. 36.4 s

B. 37.4 s

D. 38.0 s

6) Which expression is equivalent to $30 + 45$?

A. $5(6 + 9)$

C. $3(10 + 15)$

B. $15(2 + 3)$

D. $6(5 + 7.5)$

7) A thermometer reads -5°F in the morning. By afternoon, the temperature has risen by 8°F . What is the new temperature?

A. 13°F

C. -13°F

B. 3°F

D. -3°F

8) Which statement correctly compares the numbers using a number line?

A. $-2.5 < -2$

C. $-1.2 < -1.5$

B. $-0.8 > 0$

D. $0.3 < 0.2$

9) Order these numbers from greatest to least:

$0.6, -\frac{3}{4}, 0.1, -2$

A. $-2, -\frac{3}{4}, 0.1, 0.6$

C. $0.1, 0.6, -\frac{3}{4}, -2$

B. $0.6, 0.1, -\frac{3}{4}, -2$

D. $0, 0.1, 0.6, -\frac{3}{4}, -2$

10) Evaluate: $\frac{-72}{-9}$

A. 8

C. -63

B. -8

D. 63



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- 11) A car rental company charges \$25 per day. What is the cost for 4 days?

- 12) Which shows the distributive property correctly applied to $2(3x - 1)$?

- A. $2 \cdot 3x - 1$ C. $2 \cdot 3x - 2 \cdot 1$
 B. $6x - 2$ D. $3x - 2$

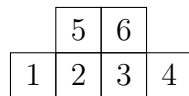
- 13) Solve for x : $2x = 14$

- A. $x = 7$ C. $x = 16$
 B. $x = 12$ D. $x = 28$

- 14) A storage box has dimensions $2\frac{1}{2}$ m by $1\frac{1}{2}$ m by 2 m. Find its volume.

- A. 6 m^3 C. 9 m^3
 B. 7.5 m^3 D. 12.5 m^3

- 15) In the net of a cube, which arrangement would result in faces 1 and 2 being on opposite sides of the cube?



- A. 1 and 2 C. 2 and 5
 B. 3 and 6 D. 1 and 4



1) A triangle has a base of 18 feet. If its area is 63 ft^2 , what is the height?

A. 3.5 ft

C. 10.5 ft

B. 14 ft

D. 7 ft

2) The opposite of the opposite of 8 is:

A. 8

C. 0

B. -8

D. 16

3) Which ordered pair is in Quadrant II?

A. $(7, -2)$

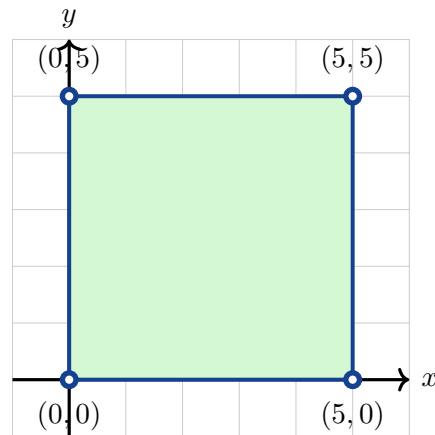
C. $(4, 6)$

B. $(-3, 5)$

D. $(-5, -4)$

4) A recipe calls for flour and sugar in a $5 : 2$ ratio. If the recipe uses 10 cups of flour, how many cups of sugar are needed?





5)

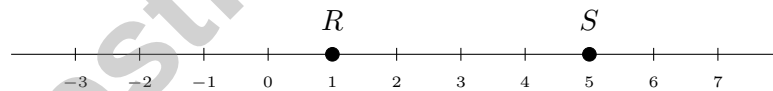
A square has vertices at $(0,0)$, $(5,0)$, $(5,5)$, and $(0,5)$. What is the perimeter?

- A. 15 units C. 20 units
 B. 18 units D. 25 units

6) Which expansion is correct for $9(5 + 2)$?

- A. $45 + 18$ C. $9 + 5 + 9 + 2$
 B. $45 + 2$ D. 90

7)



If $R = 1$ and $S = 5$, which statement is true?

- A. $R > S$ C. $R < S$
 B. $S - R = 3$ D. $R + S = 5$



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& answers

1) A student incorrectly computed $4.2 \times 0.5 = 2.10$ instead of 2.1. Which statement is true?

- A. The student made an error; trailing zeros should be removed.
- B. Both answers are equivalent in value.
- C. The decimal point is in the wrong place.
- D. The student forgot to multiply.

2) A scientist records bird counts at different altitudes. The stem-and-leaf plot uses a 2-digit stem (like 15, 16, 17). If stem 16 has leaves 0, 3, 7, what are the data values?

- A. 160, 163, 167
- B. 16, 16, 16
- C. 1603, 1663, 1673
- D. Cannot determine without the full plot

3) A dot plot has values 1 mile: 2 students; 2 miles: 5; 3 miles: 8; 4 miles: 4; 5 miles: 1. Find the mean miles run.

4) A circle has a radius of 5 cm. What is its approximate area? Use $\pi \approx 3.14$.

- A. 15.7 cm^2
- B. 31.4 cm^2
- C. 78.5 cm^2
- D. 314 cm^2



- 5) Jordan's ordered scores are 70, 75, 80, 85, 88, 88, 88, 90, 92, 92. Find the median.

- 6) Consider the wording of two questions:

Non-Statistical	Statistical
How many wheels are on a car?	How many wheels do cars parked in a parking lot have?

What change makes the second question statistical?

- A. Adding the word “how many” C. Adding the word “cars”
 B. Adding a specific location and comparing multiple cars D. Changing the word order
- 7) Which of the following describes the CENTER of a data set?
- A. Range C. Interquartile range
 B. Median D. Maximum value
- 8) A data set has 8 values. To find the median, you must:
- A. Find the middle value C. Find the mode
 B. Find the average of the 4th and 5th values D. Count all the values



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For more practice
& answers

Pennsylvania PSSA Practice Test Answer Keys

How to use this Pennsylvania PSSA answer section with a Grade 6 student:

1. check the answer first, then write one quick reason the choice is correct
2. mark questions to try again, especially the skills that feel connected to Keystone practice habits
3. rework the problem before reading the full explanation, using this reminder: Use each clue as a keystone: connect facts, solve carefully, and verify the answer.

A calm Pennsylvania correction routine turns every missed item into useful practice. After each round, choose one correction habit to hold the next test together.



Pennsylvania Practice Test Answers and Explanations

Review the nine printed PSSA tests with structured, confident, and ready for the next keystone habits.

Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** [CC.2.1.6.D.1](#) Net worth = Assets – Debts = \$1200 – \$300 = \$900.
- 2) **The correct answer is 200.** [CC.2.1.6.D.1](#) Distance = Rate × Time = $80 \times 2.5 = 200$ miles.
- 3) **Choice B is correct.** [CC.2.1.6.D.1](#) The pattern shows 12 inches = 1 foot. For 60 inches: $60 \div 12 = 5$ feet.
- 4) **Choice C is correct.** [CC.2.2.6.B.3](#) Save allocation: 10% of \$4000 = $0.10 \times 4000 = \$400$.
- 5) **Choice B is correct.** [CC.2.1.6.E.1](#) Add: $12.4 + 11.8 + 13.2 = 37.4$ s.
- 6) **Choice B is correct.** [CC.2.1.6.E.3](#) GCF of 30 and 45 is 15. So $30 + 45 = 15(2 + 3)$. Choice A uses GCF 5, which works but is not the greatest. Choice B is correct.
- 7) **Choice B is correct.** [CC.2.1.6.E.1](#) A temperature rise of 8°F means we add 8 to the starting temperature: $-5 + 8 = 3^\circ\text{F}$.
- 8) **Choice A is correct.** [CC.2.1.6.E.3](#) On a number line, -2.5 is to the left of -2 , making it less than -2 .
- 9) **Choice B is correct.** [CC.2.1.6.E.3](#) Positive numbers are greater than negative numbers. Among positives: $0.6 > 0.1$. Among negatives: $-\frac{3}{4} = -0.75 > -2$.
- 10) **Choice A is correct.** [CC.2.1.6.E.1](#) Negative divided by negative is positive: $\frac{-72}{-9} = 8$.
- 11) **The correct answer is 100 dollars.** [1.6.D](#) The cost is \$25 for each day. For 4 days, multiply $25 \times 4 = 100$, so the rental costs \$100.
- 12) **Choice C is correct.** [2.6.B](#) The distributive property applies 2 to both terms: $2(3x - 1) = 2 \cdot 3x - 2 \cdot 1 = 6x - 2$.
- 13) **Choice A is correct.** [CC.2.2.6.B.2](#) Divide both sides by 2: $x = 14 \div 2 = 7$.
- 14) **Choice B is correct.** [CC.2.1.6.E.2](#) $V = 2.5 \times 1.5 \times 2 = 3.75 \times 2 = 7.5 \text{ m}^3$.
- 15) **Choice D is correct.** [CC.2.3.6.A.1](#) In this net arrangement (1-2-3-4 in a row, 5 above 2, 6 above 3), faces 1 and 4 are on opposite ends of the center line and will be opposite when the net is folded into a cube.
- 16) **Choice D is correct.** [CC.2.4.6.B.1](#) Variability in spending is what makes this statistical. Different customers have different budgets and spending patterns, so data must be collected to answer the question.
- 17) **Choice A is correct.** [CC.2.4.6.B.1](#) IQR measures spread in the middle 50%. Set X's IQR of 15 is larger than Set Y's IQR of 8, indicating Set X has greater spread in the middle half.
- 18) **The correct answer is Coprime numbers have GCF of 1; if one number is a factor of the other, the GCF is the smaller..** [CC.2.1.6.E.3](#) Statement A: Coprime (or relatively prime) numbers share only 1 as a common factor (TRUE). Statement B: LCM of 8 and 12 is 24, not 96 (FALSE). Statement C: If 3 divides 12, then $\text{GCF}(3, 12) = 3$ (TRUE). Statement D: GCF is never larger than LCM (FALSE). Statement E: $100 = 4 \times 25 = 2^2 \times 5^2$, not 2×5^2 (FALSE).
- 19) **Choice B is correct.** [CC.2.1.6.E.1](#) Order the data: 70, 75, 75, 80, 80, 80, 85, 90. There are 8 values, so the median is the average of the 4th and 5th values. Both are 80, so the median is $\frac{80+80}{2} = 80$.
- 20) **Choice C is correct.** [CC.2.1.6.E.1](#) Outcomes: HH, HT, TH, TT. Total outcomes = $2 \times 2 = 4$.
- 21) **Choice C is correct.** [CC.2.2.6.B.3](#) Opposite numbers: -3 and 3 . Their absolute values: $|-3| + |3| = 3 + 3 = 6$.
- 22) **Choice A is correct.** [CC.2.1.6.D.1](#) Reflecting across the y -axis flips the x -coordinate to its opposite, giving $(-a, b)$.
- 23) **Choice C is correct.** [CC.2.2.6.B.2](#) Same y -coordinate: $|9 - 3| = 6$ units. Distance: $6 \times 100 = 600$ meters.
- 24) **Choice D is correct.** [CC.2.3.6.A.1](#) Descending deeper adds to the negative value: $-45 + (-20) = -65$ feet.
- 25) **Choice D is correct.** [CC.2.1.6.E.2](#) Substitute $x = 3$: $\frac{2(3)+6}{2} = \frac{6+6}{2} = \frac{12}{2} = 6$.
- 26) **Choice A is correct.** [CC.2.2.6.B.2](#) If $p + 12 = 25$, then $p = 25 - 12 = 13$.



Hi, Hero!

◇ Once there was a Grade 6 student who took 9 practice tests. At first, the math was tricky. But this student kept showing up, kept trying, and kept learning. By the end, the student became a math hero. That hero is you! ◇

★ **Storytellers know:** every story has a hard middle. The hard middle is where heroes grow. You lived your hard middle. Your story ends with confidence! ★

Your Hero Toolkit

- **Brave Heart:** You try hard problems.
- **Sharp Mind:** You think carefully before you act.
- **Steady Hand:** You write neatly and check.
- **Kind Spirit:** You are patient with yourself.

Storyteller tip: on test day, remember the hero you became. The chapters before today made you stronger. Now write your best chapter!

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

Jay Daie

Your Math Storyteller

PRACTICE MORE. ACHIEVE MORE.

This **Grade 6 Math Practice Tests** book is designed to help students strengthen their math skills, master important concepts, and build the confidence they need to excel on any test.

With 9 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, develop problem-solving abilities, and reach their full potential.

Perfect for classroom use, homework, test preparation, and extra practice at home.

PERFECT FOR:

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



**PRACTICE TODAY.
SUCCEED TOMORROW.**

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.



Deeper Understanding

Reinforce key math concepts aligned with standards.



Test Confidence

Get familiar with test formats and improve accuracy.



Achieve Success

Build confidence and perform your best on test day.

TOPICS COVERED

- ✓ Ratios & Rates
- ✓ The Number System
- ✓ Expressions & Equations
- ✓ Geometry
- ✓ Fractions & Decimals
- ✓ Percents
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ And More!



2 ONLINE TESTS

Extra online practice to reinforce learning and build confidence.

MORE PRACTICE. GREATER RESULTS.

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



9 PRINTED
PRACTICE TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS