

8

Pennsylvania

PSSA

GRADE 6

MATH

PRACTICE TESTS

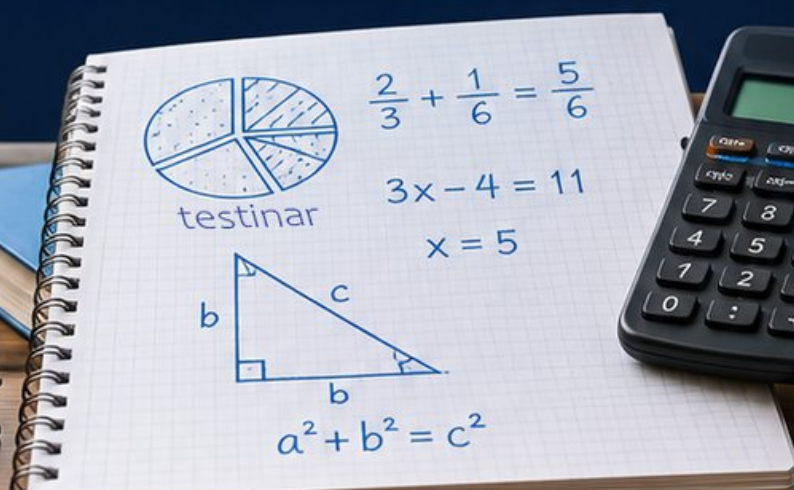
8
PRINTED
TESTS

+

2
ONLINE
TESTS

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

Standards-Aligned *Steady Southern* Problem Solving for Comprehensive Assessment Program



BUILT FOR
ACAP SUCCESS



REALISTIC TESTS
& QUESTION TYPES



STRENGTHEN
MATH SKILLS



REVIEW, PRACTICE,
AND IMPROVE

8 Pennsylvania PSSA Grade 6 Math Practice Tests

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



Eight 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!

Eight focused rounds using Keystone practice habits

This book gives you eight 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 eight-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?

Eight PSSA tests, 320 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 7–8	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

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1) Start with $4x + 8 + 3x$. After combining like terms, what is the coefficient of x , and what is the constant?

A. Coefficient: 4; Constant: 8

C. Coefficient: 12; Constant: 0

B. Coefficient: 3; Constant: 12

D. Coefficient: 7; Constant: 8

2) Solve for x : $\frac{x}{4} = 8$.

3) A plant must grow to a height of more than 12 inches to be considered mature. Which inequality represents the height h ?

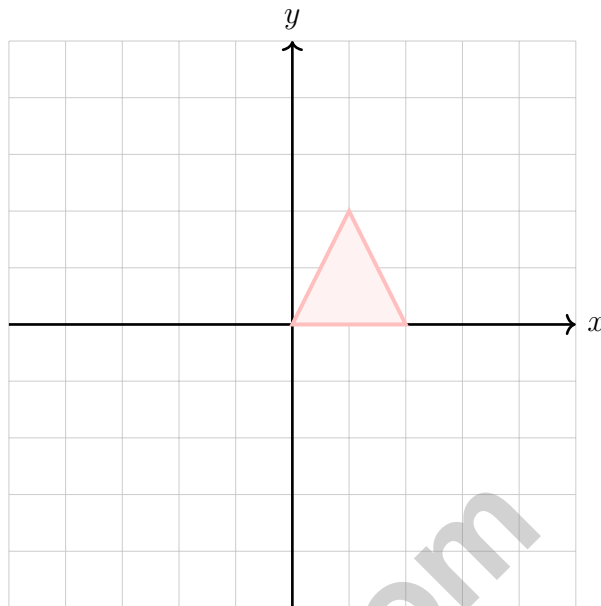
A. $h \geq 12$

C. $h < 12$

B. $h \leq 12$

D. $h > 12$



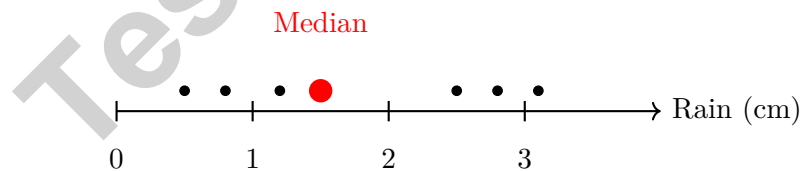


4)

Which of the following represents a reflection over the x -axis?

- A. $(x, y) \rightarrow (x, -y)$
- C. $(x, y) \rightarrow (x + a, y + b)$
- B. $(x, y) \rightarrow (-x, y)$
- D. $(x, y) \rightarrow (-x, -y)$

5) A dot plot shows rainfall (cm) for 7 days: 0.5, 0.8, 1.2, 1.5, 2.5, 2.8, 3.1. Which represents the median?



- A. 0.8
- C. 2.5
- B. 1.9
- D. 1.5



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6) A scale of $1 \text{ cm} = 3 \text{ m}$ is used to draw a plan. If the actual width of a room is 9 m , what is the width in the drawing?

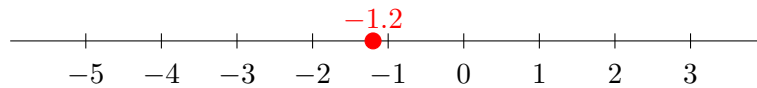
A. 2 cm

C. 4 cm

B. 3 cm

D. 5 cm

7)



Which number from the list below is closest to the point shown?

A. -2

C. 0

B. -1

D. 3

8) On a map, the grocery store is at $(1, 2)$ and the bank is at $(7, 2)$. The distance on the map is 6 units. If each unit is 100 meters, what is the real-world distance?

A. 500 m

C. 700 m

B. 600 m

D. 800 m

9) A bank account history: Started with $\$0$, gained $\$150$ from a paycheck, spent $\$30$ on groceries, spent $\$45$ on gas, then received a rebate of $\$20$. What is the final balance?

A. $-\$95$

C. $\$55$

B. $\$95$

D. $\$245$

10) A taxi charges $\$3$ per mile. What is the fare for 12 miles?



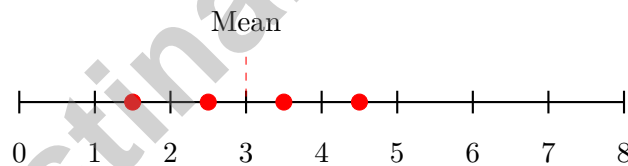
1) A gym membership requires members to be between a certain age range. The inequality $x \geq 13$ represents the minimum age. On a number line, how should the circle at 13 appear?

- A. Open circle, because the symbol is \geq
 B. The symbol \geq does not use a circle on number lines
 C. Open circle, because we want people older than 13
 D. Closed circle, because the symbol is \geq

2) A spinner has 12 equal sections. If you spin it, the probability of landing on blue is $\frac{1}{3}$. How many sections are blue?

- A. 2
 B. 3
 C. 4
 D. 6

3) Find the mean of the values shown on the number line:



- A. 2.5
 B. 3
 C. 3.5
 D. 4

4) A dataset's box plot is perfectly symmetric (whiskers are equal length, and the median is exactly between Q_1 and Q_3). Which statement must be true?

- A. The distribution is symmetric around the median.
 B. The data has no outliers.
 C. The mean equals the median.
 D. All data values are equally spaced.



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5) A dot plot shows scores: $\{3, 5, 7, 7, 8, 8, 8, 9\}$. What is the mode?

A. 7

C. 9

B. 3

D. 8

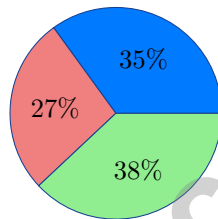
6) A stem-and-leaf plot of test scores has stem 7 with leaves 2, 5, 8. Which values are represented?

A. 27, 57, 87

C. 70, 71, 72

B. 72, 75, 78

D. 7.2, 7.5, 7.8



7)

A clothing store has 720 items in inventory. The circle graph shows $\frac{7}{20}$ are shirts. How many shirts are there?

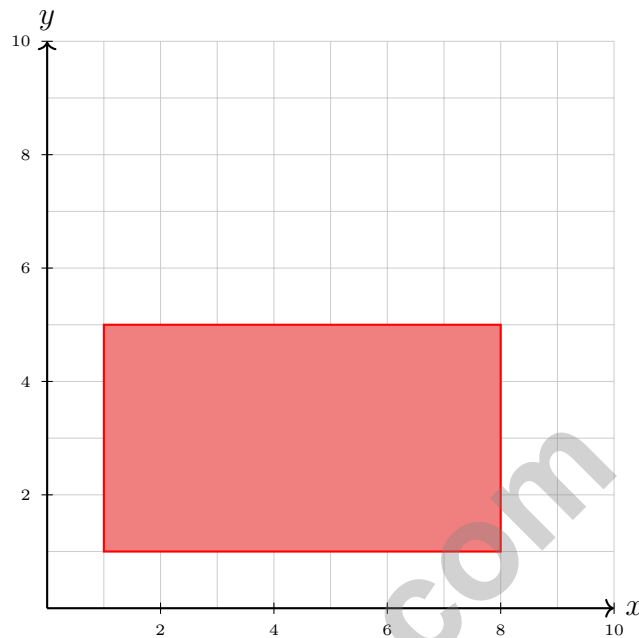
A. 252

C. 200

B. 216

D. 288





1)

What is the area of the rectangle with vertices at (1, 1), (8, 1), (8, 5), and (1, 5)?

- A. 24 square units C. 32 square units
 B. 36 square units D. 28 square units

2) What is $|-8|$?

- A. -8 C. 0
 B. 8 D. 16

3) What is the reflection of (7, -2) across the y -axis?

- A. $(-7, 2)$ C. $(7, 2)$
 B. $(-7, -2)$ D. $(2, 7)$



- 4) A container holds 96 fluid ounces of liquid. How many cups does the container hold?

- 5) What is the distance between the points $(-3, 4)$ and $(-3, -2)$ on the coordinate plane?

- A. 4 units C. 6 units
 B. 5 units D. 7 units

- 6) A parking garage charges \$3 per hour. If a customer stays for 4 hours, what is the total charge?

- A. \$12 C. \$1
 B. \$7 D. \$84

- 7) Evaluate $\frac{1}{2}(a + b)$ when $a = 4$ and $b = 8$.

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

- 8) A movie ticket costs \$12. A snack costs \$ x . Which expression shows the total cost for one ticket and one snack?

- A. $12 + x$ C. $12x$
 B. $12 - x$ D. $\frac{12}{x}$



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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.



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Pennsylvania Practice Test Answers and Explanations

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

Practice Test 1 Answers and Explanations

- 1) **Choice D is correct.** [CC.2.2.6.B.2](#) Combine like terms: $4x + 3x = 7x$. The constant 8 does not combine. Final: $7x + 8$.
- 2) **The correct answer is 32.** [CC.2.2.6.B.2](#) Multiply both sides by 4: $x = 8 \times 4 = 32$. The inverse of dividing by 4 is multiplying by 4.
- 3) **Choice D is correct.** [CC.2.1.6.E.2](#) "More than 12" means strictly greater: $h > 12$.
- 4) **Choice A is correct.** [CC.2.1.6.D.1](#) Reflection over the x -axis keeps the x -coordinate the same and negates the y -coordinate.
- 5) **Choice D is correct.** [CC.2.2.6.B.2](#) With 7 values, the median is the 4th value when ordered: 0.5, 0.8, 1.2, 1.5, 2.5, 2.8, 3.1. Median is 1.5.
- 6) **Choice B is correct.** [1.6.D](#) Divide: $9 \text{ m} \div 3 \text{ m/cm} = 3 \text{ cm}$.
- 7) **Choice B is correct.** [CC.2.1.6.E.3](#) Find the distance from -1.2 to each choice: to -2 is 0.8, to -1 is 0.2, to 0 is 1.2, to 3 is 4.2. The smallest distance is to -1 , so it is the closest.
- 8) **Choice B is correct.** [CC.2.2.6.B.2](#) Distance on map: $|7 - 1| = 6$ units. Real distance: $6 \times 100 = 600$ meters.
- 9) **Choice B is correct.** [CC.2.3.6.A.1](#) Sequence of transactions: $0 + 150 - 30 - 45 + 20 = 150 - 75 + 20 = \95 .
- 10) **The correct answer is 36.** [CC.2.2.6.B.3](#) Multiply $3 \times 12 = 36$.
- 11) **Choice A is correct.** [CC.2.1.6.E.2](#) Substitute $x = \frac{2}{3}$: $3(\frac{2}{3} - 2) + 4 = 3(-\frac{4}{3}) + 4 = -4 + 4 = 0$.
- 12) **Choice B is correct.** [CC.2.2.6.B.2](#) Total = price per cookie \times number of cookies = $6c$ cents.
- 13) **Choice D is correct.** [CC.2.1.6.E.3](#) The symbol \geq includes the boundary value, so we use a closed (filled) circle to show that -3 is part of the solution set.
- 14) **Choice C is correct.** [CC.2.1.6.E.3](#) Side length = $8 - 2 = 6$ units. Area = $6 \times 6 = 36$ square units.
- 15) **Choice C is correct.** [CC.2.3.6.A.1](#) Rectangle: base $11 - 3 = 8$, height $8 - 2 = 6$, area = 48 sq. units. Triangle: base $11 - 3 = 8$, height 4 units, area = $\frac{1}{2} \times 8 \times 4 = 16$ sq. units. Total = $48 + 16 = 64$ sq. units.
- 16) **Choice A is correct.** [CC.2.1.6.D.1](#) Area = $\pi r^2 \approx 3.14 \times 1^2 = 3.14 \times 1 = 3.14 \text{ ft}^2$.
- 17) **Choice A is correct.** [CC.2.4.6.B.1](#) Range = max $-$ min = $14 - 2 = 12$. IQR = $Q3 - Q1 = 10 - 4.5 = 5.5$.
- 18) **Choice B is correct.** [CC.2.1.6.E.2](#) Counting the dots: 0 books (1 student), 1 book (4 students), 2 books (5 students), 3 books (3 students), 4 books (2 students), 5 books (1 student). Total = 16 students. The median is the average of the 8th and 9th values. Listing in order: 0, 1, 1, 1, 1, 2, 2, 2, 2, 3, 3, 3, 4, 4, 5. The 8th value is 2 and the 9th value is 2, so the median is 2.
- 19) **The correct answer is Choosing a job and opening a savings account.** [CC.2.1.6.D.1](#) (A) and (D) are personal financial decisions an individual makes about their own money. (B) is just watching a show, not making a decision; (C) is a government policy; (E) is set by the Federal Reserve.
- 20) **Choice C is correct.** [CC.2.1.6.D.1](#) Corn is the 5-part amount. Since $30 \div 5 = 6$, each part is 6 rows, and beans are 3 parts: $3 \times 6 = 18$ rows.
- 21) **Choice B is correct.** [CC.2.1.6.D.1](#) The ratio 2 : 3 is constant. When sugar is 12, multiply by 4: $2 \times 4 = 8$ cups of flour.
- 22) **Choice A is correct.** [CC.2.1.6.D.1](#) 6 : 9 simplifies by dividing both by 3: $6 \div 3 = 2$ and $9 \div 3 = 3$, giving 2 : 3.
- 23) **Choice A is correct.** [1.6.D](#) The ratio of distance to time is $100/2 = 50$ and $200/4 = 50$ mph, confirming constant speed. The proportional equation is $d = 50t$, not $d = 100t$.
- 24) **Choice B is correct.** [CC.2.1.6.E.1](#) $\frac{4}{7} \times \frac{7}{2} = \frac{28}{14} = 2$.
- 25) **Choice B is correct.** [CC.2.1.6.E.1](#) A drop of 7° per hour for 5 hours: $(-7) \times 5 = -35^\circ$. The temperature decreases by 35° total.



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

MASTER MATH. ACE YOUR TESTS.

This Grade 6 Math Practice Tests book is designed to help students build confidence, strengthen math skills, and excel on comprehensive assessments.

With 8 full-length printed tests and 2 online tests, this resource provides realistic practice, a variety of question types, and detailed answer explanations to help students achieve their best.

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.



Understand Key Concepts

Reinforce important math ideas 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
- ✓ Percents
- ✓ The Number System
- ✓ Statistics & Probability
- ✓ Expressions & Equations
- ✓ Data Analysis
- ✓ Geometry
- ✓ Measurement & Conversions
- ✓ Fractions & Decimals
- ✓ 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.



8 FULL-LENGTH
PRACTICE TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS