

6

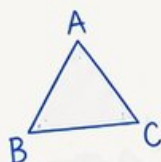
Pennsylvania PSSA

GRADE
6
MATH

PRACTICE TESTS

Standards-Aligned
Steady Southern
Problem Solving for
Comprehensive
Assessment Program

$$2x + 3 = 11$$



$$7^2 = 49$$

BUILD SKILLS.
GAIN CONFIDENCE.
SUCCEED!



6 PRINTED TESTS

Realistic practice to build confidence and mastery



2 ONLINE TESTS

Extra practice for continued success



DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



6 PRINTED TESTS +2 ONLINE TESTS

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



PRACTICE

Sharpen skills with targeted practice tests



REVIEW

Understand concepts and strengthen skills

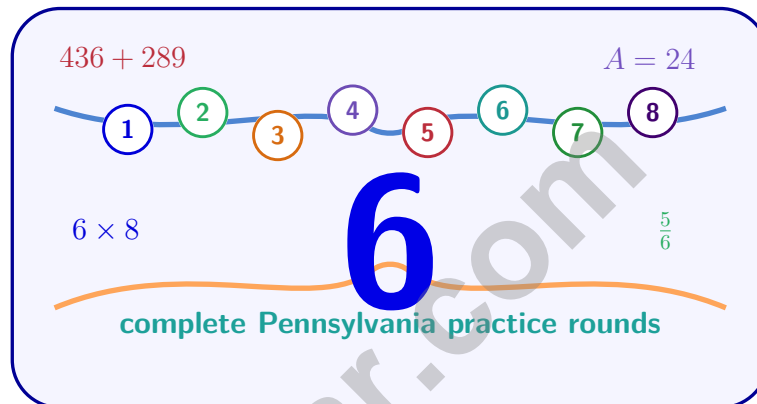


SUCCEED

Build confidence and achieve your best

6 Pennsylvania PSSA Grade 6 Math Practice Tests

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



Six 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 six 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 six-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 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Tests 3–5	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Test 6	Final stamina round 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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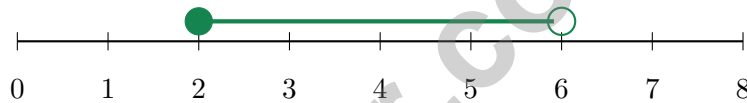
★ Practice Test 1	_____	12
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1) A student fills in a ratio table but makes an error. Which entry is wrong?

Hours Worked	Money Earned (\$)
2	18
4	36
6	54
7	64

- A. 2 : 18 is wrong C. 6 : 54 is wrong
 B. 4 : 36 is wrong D. 7 : 64 is wrong

2)



Which inequality is shown by the graph above?

- A. $2 \leq x < 6$ C. $2 < x < 6$
 B. $2 < x \leq 6$ D. $2 \leq x \leq 6$
- 3) A science class recorded temperatures: 18, 20, 22, 24, 26, 28. What is the median?
- A. 22 C. 24
 B. 23 D. 25



4) After distributing $5(x + 6)$, what is the constant term?

5) Find the LCM of 6 and 9 using prime factorization.

A. 18

C. 36

B. 27

D. 54

6) Which statement is true?

A. $-10 < -5$

C. $-3 > -8$

B. $-5 > 0$

D. $0 < -1$

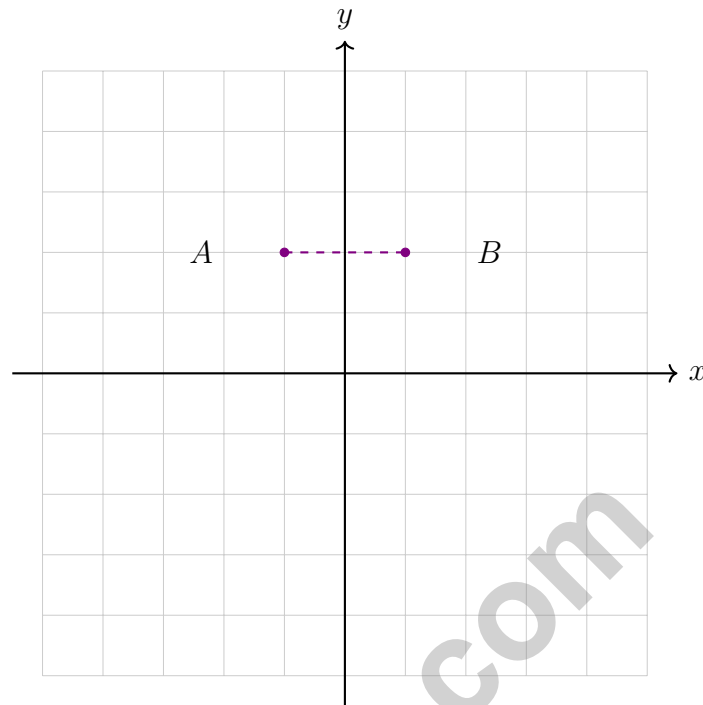
7) The table below shows the cost of renting a canoe.

Hours	2	4	6
Cost (\$)	30	60	90

What is the cost per hour to rent the canoe?



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For more practice
& answers



8)

Points A and B are shown. Which transformation was applied to point A to get point B ?

- | | |
|---|--|
| <input type="checkbox"/> A. Reflection across the x -axis | <input type="checkbox"/> C. A translation to the right |
| <input type="checkbox"/> B. Reflection across the y -axis | <input type="checkbox"/> D. A rotation of 90 degrees |

9) Order from least to greatest:

$$\frac{3}{5}, -\frac{3}{5}, -\frac{1}{5}, \frac{1}{5}$$

- | | |
|--|--|
| <input type="checkbox"/> A. $-\frac{3}{5}, -\frac{1}{5}, \frac{1}{5}, \frac{3}{5}$ | <input type="checkbox"/> C. $-\frac{1}{5}, -\frac{3}{5}, \frac{1}{5}, \frac{3}{5}$ |
| <input type="checkbox"/> B. $\frac{1}{5}, \frac{3}{5}, -\frac{1}{5}, -\frac{3}{5}$ | <input type="checkbox"/> D. $\frac{3}{5}, \frac{1}{5}, -\frac{1}{5}, -\frac{3}{5}$ |

4) A dot plot shows: $\{5, 8, 12, 15, 18, 22, 28\}$. Identify the shape.

- A. Symmetric C. Skewed right
 B. Skewed left D. Bimodal

5) Maria surveyed her class about favorite sports: soccer, basketball, baseball, and tennis. The results were: soccer 12, basketball 8, baseball 7, tennis 3.

What is the PRIMARY purpose of using a bar graph to display this data?

- A. To compare counts across different categories C. To display parts of a whole
 B. To show how the data changes over time D. To reveal the median and quartiles

6) A 15-ounce bottle of juice costs \$3.75. What is the price per ounce?

- A. \$0.20 C. \$0.30
 B. \$0.25 D. \$0.50

7) Find the mean absolute deviation of 70, 75, 80, 82, 85, 88, 90, 92, 95. Round to the nearest hundredth.

8) A water fountain dispenses 8 ounces of water per second. Which statement describes a proportional relationship between water dispensed and time?

- A. After 0 seconds, 8 ounces have been dispensed C. The graph passes through $(0, 8)$
 B. After 5 seconds, 40 ounces have been dispensed D. After 5 seconds, 48 ounces have been dispensed



- 1) A soccer field has goal markers and corner flags arranged in a pattern. There are 9 goal markers and 3 corner flags. Which statement is NOT correct?
- A. The ratio of markers to flags is 9 : 3. C. For every 3 markers there is 1 flag.
 B. The simplified ratio is 3 : 1. D. For every 1 marker there are 3 flags.
- 2) A vending machine dispenses chips and pretzels in a ratio of 7 : 5. If the machine dispenses 35 bags of chips, how many bags of pretzels does it dispense?

Chips (bags)	Pretzels (bags)
7	5
14	10
35	?

- A. 20 C. 28
 B. 30 D. 25
- 3) The data set is: 5, 8, 10, 12, 15, 18, 20, 22, 25, 28. Find the interquartile range (IQR).
Hint: $Q1 = 10$, $Q3 = 23$.

- 4) A blueprint shows a room at a scale of 1 cm = 2 meters. If the blueprint shows a room that is 8 cm wide, how many meters wide is the actual room?
- A. 20 meters C. 8 meters
 B. 10 meters D. 16 meters



5) A table of values is shown. Which statement is correct?

x	0	1	2	3
y	2	4	6	8

- A. This is proportional; when $x = 0$, $y = 0$
- B. This is not proportional; when $x = 0$, $y = 2$
- C. This is proportional; the equation is $y = 2x$
- D. Cannot determine if proportional
- 6) A cube has an edge length of 4 cm. What is its total surface area?

- A. 16 cm^2
- B. 64 cm^2
- C. 96 cm^2
- D. 128 cm^2

7) A frequency table is created from a dot plot. The table shows: Value 2: Frequency 4; Value 3: Frequency 6; Value 4: Frequency 5; Value 5: Frequency 3. How many data points are in this data set?

Value	Frequency
2	4
3	6
4	5
5	3

- A. 15 data points
- B. 16 data points
- C. 17 data points
- D. 18 data points



Scan me!
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 six printed PSSA tests with structured, confident, and ready for the next keystone habits.

Practice Test 1 Answers and Explanations

- Choice D is correct.** [CC.2.1.6.D.1](#) Ratio is 1 : 9 (unit rate: \$9/hour). Rows 1–3: $2 : 18 = 1 : 9$, $4 : 36 = 1 : 9$, $6 : 54 = 1 : 9$ (all correct). Row 4: $7 : 64 \neq 1 : 9$ (should be $7 : 63$). Entry 7 : 64 breaks the pattern.
- Choice A is correct.** [CC.2.1.6.E.2](#) The filled circle at 2 means “equals 2” (\geq). The open circle at 6 means “not including 6” ($<$). Together: $2 \leq x < 6$.
- Choice B is correct.** [CC.2.2.6.B.2](#) With 6 values, median is the average of the 3rd and 4th values: $\frac{22 + 24}{2} = 23$.
- The correct answer is 30.** [2.6.B](#) $5(x + 6) = 5x + 30$, so the constant term is 30.
- Choice A is correct.** [CC.2.1.6.E.3](#) Prime factors: $6 = 2 \times 3$ and $9 = 3^2$. The LCM uses each prime the greatest number of times: $2 \times 3^2 = 18$.
- Choice C is correct.** [CC.2.1.6.E.1](#) On a number line, -3 is to the right of -8 , so -3 is greater than -8 . The fewer negative units from zero, the greater the number.
- The correct answer is 15.** [CC.2.2.6.B.3](#) The cost increases by \$30 for every 2 hours. So the rate is $\frac{\$30}{2 \text{ hours}} = \15 per hour. Check: 2 h at \$15/h costs \$30; 4 h costs \$60; 6 h costs \$90.
- Choice B is correct.** [CC.2.1.6.D.1](#) Point A is at $(-1, 2)$ and point B is at $(1, 2)$. The y -coordinate stays the same while the x -coordinate changes sign, which is a reflection across the y -axis.
- Choice A is correct.** [CC.2.1.6.E.3](#) Negative fractions come before positive ones. $-\frac{3}{5} < -\frac{1}{5}$ and $\frac{1}{5} < \frac{3}{5}$.
- Choice D is correct.** [CC.2.2.6.B.2](#) Same y -coordinate (-2): $|3 - (-6)| = |3 + 6| = 9$ units.
- Choice C is correct.** [CC.2.3.6.A.1](#) Adding a deposit to an overdrawn balance: $-25 + 60 = \$35$.
- Choice D is correct.** [CC.2.1.6.E.1](#) Parentheses: $4 - 1 = 3$. Exponent: $2^2 = 4$. Multiply: $3 \times 4 = 12$. Subtract: $12 - 1 = 11$.
- Choice C is correct.** [CC.2.2.6.B.2](#) Before combining, we count three separate terms: a , $2a$, and $3a$. After combining, they equal $6a$.
- Choice B is correct.** [CC.2.1.6.E.2](#) Substitute $x = 2$: $3(2)^2 = 3(4) = 12$.
- Choice A is correct.** [CC.2.2.6.B.2](#) If $x = 8$, then closet paint = $x - 3 = 8 - 3 = 5$ gallons.
- Choice C is correct.** [CC.2.2.6.B.2](#) To undo multiplication, divide. This isolates x on the left side.
- Choice D is correct.** [CC.2.1.6.E.3](#) “At least” means “greater than or equal to,” so the inequality is $v \geq 15$.
- Choice C is correct.** [CC.2.3.6.A.1](#) Using $A = \frac{1}{2}(b_1 + b_2)h$: $56 = \frac{1}{2}(10 + 6)h = 8h$, so $h = 7$ in.
- The correct answer is Equivalent-fraction divide and reciprocal multiply.** [CC.2.1.6.E.1](#) B uses a common denominator so you are dividing same-size chunks: $\frac{15}{18} \div \frac{6}{18} = \frac{15}{6} = \frac{5}{2}$. C keeps $\frac{5}{6}$ and multiplies by the reciprocal of $\frac{1}{3}$, which is $\frac{3}{1}$ —that is $\frac{5}{6} \times \frac{3}{1}$, also simplifying to $\frac{5}{2}$. A never flips $\frac{1}{3}$, D mixes random numbers together, and E flips $\frac{5}{6}$ instead of flipping the divisor.
- Choice D is correct.** [CC.2.1.6.E.2](#) $V = 6 \times 4 \times 2 = 24 \times 2 = 48 \text{ in}^3$.
- Choice D is correct.** [CC.2.1.6.E.3](#) From $(2, 5)$ to $(6, 5)$ is the top. From $(6, 5)$ downward, the adjacent vertex is at $(6, 2)$ if the height is 3.
- Choice B is correct.** [CC.2.3.6.A.1](#) Area of a trapezoid = $\frac{1}{2}(b_1 + b_2) \times h = \frac{1}{2}(9 + 7) \times 6 = \frac{1}{2} \times 16 \times 6 = 48$ square units.
- The correct answer is 100.** [CC.2.3.6.A.1](#) $A = \frac{1}{2} \times 25 \times 8 = 100 \text{ ft}^2$.
- Choice C is correct.** [CC.2.1.6.D.1](#) Area = $\pi r^2 \approx 3.14 \times 5^2 = 3.14 \times 25 = 78.5 \text{ m}^2$.



Notes From the Math Gardener

Hi, Math Gardener!

◇ Look at how much you grew! 6 tests is like 6 weeks of taking care of your math garden. Every problem was a seed. Every try was water. ◇

★ **Gardeners say:** growth takes time. You can't see roots, but they are there. You can't always feel smarter, but you are. Your math garden is full! ★

Garden Check-Up

- **Roots:** STRONG! Your basic math is solid.
- **Stems:** STURDY! You can do step-by-step problems.
- **Leaves:** GREEN! You have lots of math tools.
- **Flowers:** BRIGHT! You feel proud of your work.

Gardener tip: keep watering your math garden long after the test. Every habit you built will grow with you for years!

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

Jay Daie

Your Math Gardener

PRACTICE TODAY. SUCCEED TOMORROW!

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 comprehensive assessments.

With 6 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.

6
PRINTED
TESTS

+
2
ONLINE
TESTS

PERFECT FOR:

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

★ BUILD SKILLS.
GAIN CONFIDENCE.
SUCCEED!

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 concepts aligned with standards through meaningful practice.



Test Confidence

Become familiar with test formats and improve accuracy and speed.



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.



6 FULL-LENGTH
PRINTED TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS