

4 Pennsylvania PSSA

GRADE
6
MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs

4

**PRINTED
TESTS**



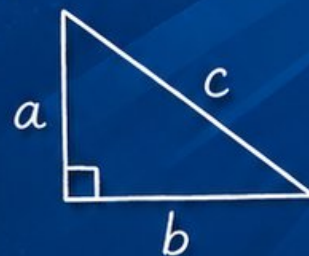
2

**ONLINE
TESTS**



- ✓ Build Confidence
- ✓ Master Key Math Skills
- ✓ Answer Explanations for Every Question
- ✓ Test-Taking Strategies That Work

$$2x + 5 = 21$$
$$x = 8$$



$$\frac{3}{4} + \frac{1}{2} = \frac{5}{4}$$



**USE THESE TWO
ADDITIONAL ONLINE
PRACTICE TESTS**

**FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.**

4 Pennsylvania PSSA Grade 6 Math Practice Tests

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



Four 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!

Four focused rounds using Keystone practice habits

This book gives you four 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 four-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?

Four PSSA tests, 160 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 3–4	Skill-building and final stamina rounds with expressions, equations, geometry, data, and problem models.
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) A cookie recipe serves 8 people and uses $\frac{3}{4}$ cup of butter. How much butter is needed to serve 4 people?

A. $\frac{1}{4}$ cup

C. $\frac{1}{2}$ cup

B. $\frac{3}{8}$ cup

D. $\frac{2}{3}$ cup

2) A city is at an elevation of 2050 feet above sea level. Its opposite elevation would be:

A. -2050 feet

C. 2050 feet

B. |2050| feet

D. 4100 feet

3) On a number line, the distance from -4 to 2 is equal to the distance from 0 to which number?

A. -6

C. 6

B. 3

D. 8

4) A point is located at $(1, -6)$. If you move this point to $(1, 6)$, which transformation occurred?

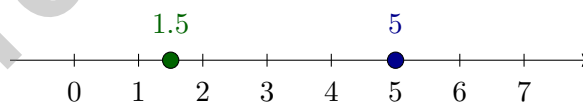
A. Reflection across the y -axis

C. A 90-degree rotation

B. A translation up

D. Reflection across the x -axis

5)



Which number is between 1.5 and 5?

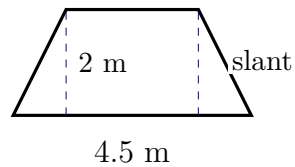
A. 3

C. 6

B. 0.5

D. 1





9)

What is the area of the parallelogram? (The height is shown by dashed lines.)

- A. 4.5 m^2 C. 9 m^2
 B. 6.5 m^2 D. 13 m^2

10) A rectangular prism has volume $\frac{80}{3} \text{ cm}^3$, length $\frac{10}{3} \text{ cm}$, and width 4 cm. What is its height?

- A. 1 cm C. 3 cm
 B. 4 cm D. 2 cm

11) A triangle has vertices at (1, 1), (5, 1), and (3, 5). What is the length of the base?

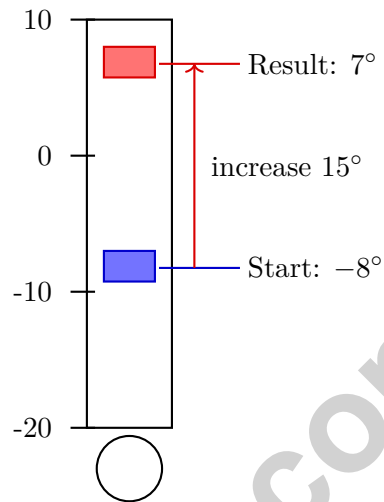
- A. 3 units C. 5 units
 B. 4 units D. 6 units

12) A student is calculating the area of a triangle with base 8 units and height 6 units. The student writes: $\text{Area} = 8 \times 6 = 48$ square units. What is the student's error?

- A. The student used the wrong base and height. C. The student should have added, not multiplied.
 B. The student forgot to divide by 2. D. The answer is correct; there is no error.
The correct area is 24 square units.



1) Which statement correctly translates: “Temperature starts at -8°C and increases by 15°C ”?



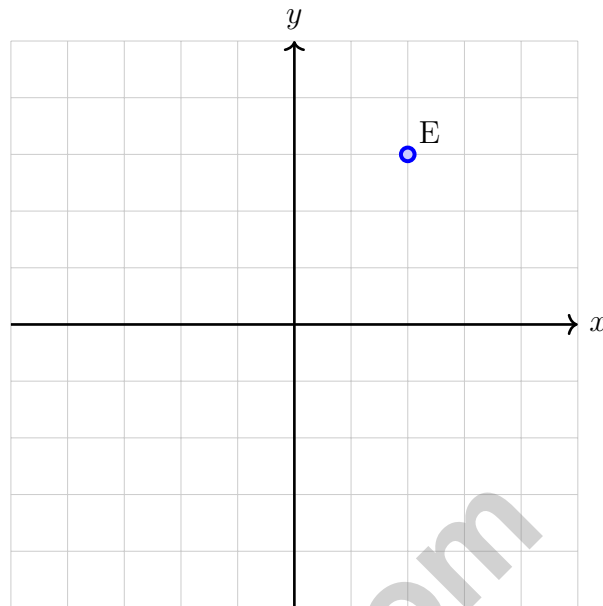
A. $-8 + 15 = 7$

B. $-8 - 15 = -23$

C. $8 + 15 = 23$

D. $-8 + (-15) = -23$

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2)

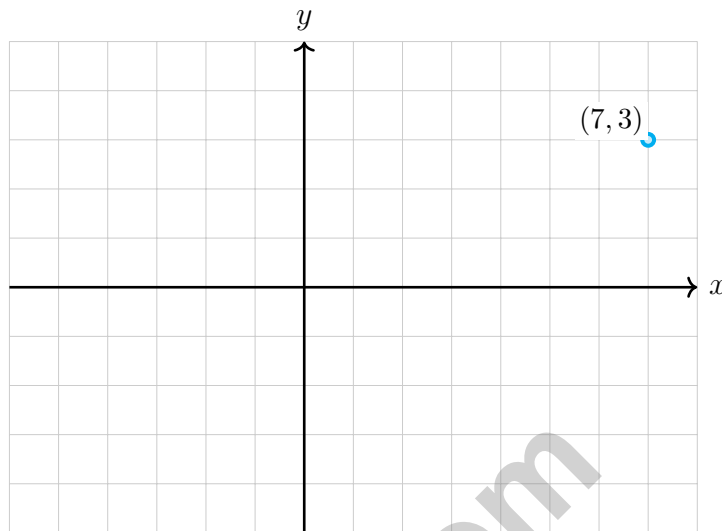
Point E is located at $(2, 3)$. If it is translated 3 units to the right and 2 units down, what are the coordinates of its image E' ?

3) For a large data set, which measure of spread is often preferred when the data contains outliers?

- A. Range C. Mode
 B. Interquartile range D. Mean



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1)

A point is at $(7, 3)$. After a translation of -2 units horizontally and -4 units vertically, where is the image?

- A. $(5, -1)$ C. $(5, 7)$
 B. $(9, 7)$ D. $(9, -1)$

2) Two different scale drawings are made of the same object. Scale A is 1 inch = 5 feet, and Scale B is 1 inch = 10 feet. Which scale makes a larger drawing?

- A. Scale A (because the scale factor is smaller) C. Both drawings are the same size
 B. Scale B (because it goes up to 10 feet) D. It depends on the object being drawn



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- 3) Paint coverage: One can of paint covers $\frac{2}{3}$ of a wall. How much of a can is needed to paint exactly $\frac{1}{2}$ of that wall?
- A. $\frac{1}{4}$ can C. $1\frac{1}{4}$ cans
 B. $\frac{3}{4}$ can D. $1\frac{1}{2}$ cans
- 4) Order these decimals from greatest to least: 0.38, 0.8, 0.308, 0.83
- A. 0.83, 0.8, 0.38, 0.308 C. 0.308, 0.38, 0.8, 0.83
 B. 0.8, 0.83, 0.308, 0.38 D. 0.308, 0.38, 0.83, 0.8
- 5) Which is a multiple of both 4 and 6?
- A. 8 C. 18
 B. 12 D. 10
- 6) On a number line, if point A is at $-\frac{5}{6}$ and point B is at $\frac{1}{6}$, what is the distance between them?
- A. $\frac{1}{6}$ C. 1
 B. $\frac{2}{3}$ D. $1\frac{1}{6}$
- 7) A point is on the y -axis between Quadrants I and II. Which of the following could be its coordinates?
- A. (0, -3) C. (4, 0)
 B. (0, 4) D. (-4, 0)



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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For more practice
& answers

Pennsylvania Practice Test Answers and Explanations

Review the four 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](#) For 4 people (half of 8), halve the amount: $\frac{3}{4} \div 2 = \frac{3}{4} \times \frac{1}{2} = \frac{3}{8}$ cup.
- 2) **Choice A is correct.** [CC.2.2.6.B.3](#) The opposite of 2050 is -2050 , representing 2050 feet below the reference point.
- 3) **Choice C is correct.** [CC.2.1.6.E.3](#) Distance from -4 to 2 is $2 - (-4) = 6$. Distance from 0 to 6 is also 6 .
- 4) **Choice D is correct.** [CC.2.1.6.D.1](#) The x -coordinate stays at 1 , but the y -coordinate changes from -6 to 6 , which is a reflection across the x -axis.
- 5) **Choice A is correct.** [CC.2.1.6.E.3](#) 3 satisfies $1.5 < 3 < 5$.
- 6) **Choice B is correct.** [CC.2.2.6.B.2](#) Same y -coordinate (1): $|8 - 1| = 7$ units.
- 7) **Choice D is correct.** [CC.2.3.6.A.1](#) $A = \frac{1}{2} \times 7 \times 8 = 28 \text{ cm}^2$.
- 8) **The correct answer is 52%.** [CC.2.1.6.E.1](#) A 10×10 grid has 100 squares total. If 52 are shaded, the percent is $\frac{52}{100} = 52\%$.
- 9) **Choice C is correct.** [CC.2.3.6.A.1](#) Area = $4.5 \times 2 = 9 \text{ m}^2$. The slanted side is not the height.
- 10) **Choice D is correct.** [CC.2.1.6.E.2](#) $\frac{80}{3} = \frac{10}{3} \times 4 \times H = \frac{40}{3} \times H$, so $H = 2 \text{ cm}$.
- 11) **Choice B is correct.** [CC.2.1.6.E.3](#) The base is from $(1, 1)$ to $(5, 1)$. Length = $5 - 1 = 4$ units.
- 12) **Choice B is correct.** [CC.2.3.6.A.1](#) The formula for a triangle is Area = $\frac{1}{2} \times \text{base} \times \text{height}$. The student multiplied base and height but forgot the $\frac{1}{2}$ factor. The correct area = $\frac{1}{2} \times 8 \times 6 = 24$ square units.
- 13) **Choice A is correct.** [CC.2.1.6.E.3](#) If $9(2 + 7) = 9 \cdot 2 + 9 \cdot 7 = 18 + 63$, then the missing factor is 9 .
- 14) **Choice C is correct.** [CC.2.1.6.E.2](#) "Less than or equal to" uses the \leq symbol: $x \leq -3$.
- 15) **Choice D is correct.** [CC.2.4.6.B.1](#) This question asks about a group (students in my grade) whose answers will vary (different numbers of siblings), and it requires collecting data from multiple students. The other questions have single fixed answers.
- 16) **The correct answer is 120.** [CC.2.1.6.D.1](#) $25\% \text{ of } 480 = 0.25 \times 480 = 120$ products were sold online.
- 17) **The correct answer is 1.8.** [CC.2.1.6.D.1](#) Divide: $180 \text{ cm} \div 100 \text{ cm/meter} = 1.8$ meters.
- 18) **Choice C is correct.** [CC.2.1.6.E.4](#) Stem 12 (representing 12.1 to 12.9) has 5 leaves: 1, 3, 5, 7, 9, giving 5 runners.
- 19) **Choice D is correct.** [CC.2.1.6.E.1](#) $15\% \text{ of } \$4000 = 0.15 \times 4000 = \600 .
- 20) **The correct answer is The constant of proportionality is 4, and the cost per unit is \$4.** [CC.2.1.6.D.1](#) A is correct because $k = \frac{8}{2} = 4$. B is correct because the cost per unit is \$4. The equation is $y = 4x$, so Choice C is false; Choice D is false because the graph passes through $(0, 0)$; Choice E gives the wrong unit rate.
- 21) **Choice C is correct.** [1.6.D](#) The flour amount doubled from 3 cups to 6 cups. Keep the same ratio by doubling the eggs too: $2 \times 2 = 4$ eggs.
- 22) **Choice C is correct.** [CC.2.2.6.B.3](#) Budget A total: $\$900 + \$300 + \$200 + \$100 = \$1500$. Budget B total: $\$700 + \$250 + \$200 + \$100 = \$1250$. Difference: $\$1500 - \$1250 = \$250$.
- 23) **Choice A is correct.** [1.6.D](#) Use the scale: $2 \text{ cm} \times 5 \text{ km/cm} = 10 \text{ km}$.
- 24) **Choice B is correct.** [CC.2.1.6.E.1](#) $\frac{7}{12} \times \frac{8}{7} = \frac{56}{84} = \frac{2}{3}$.
- 25) **Choice A is correct.** [CC.2.1.6.E.1](#) Subtract: $\$34.50 - \$7.25 = \$27.25$.
- 26) **Choice B is correct.** [CC.2.1.6.E.3](#) Factors of 4: 1, 2, 4. Factors of 6: 1, 2, 3, 6. GCF is 2. Multiples of 4: 4, 8, 12, ... Multiples of 6: 6, 12, ... LCM is 12. The teacher reversed them.



Notes From the Math Gardener

Hi, Math Gardener!

◇ Look at how much you grew! 4 tests is like 4 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 book includes 4 full-length Math practice tests and 2 online tests to help Grade 6 students build confidence, strengthen skills, and excel on standardized assessments.

Each practice test is carefully crafted to reflect the latest standards and includes a variety of question types, realistic test conditions, and detailed answer explanations.

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

THIS BOOK INCLUDES:

4 Full-Length Printed Tests

2 Online Practice Tests

 Detailed Answer Explanations

 **MORE PRACTICE.
GREATER RESULTS.**

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

WHAT YOU'LL 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 with clear explanations and meaningful practice.



Test Confidence

Familiarize 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

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



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AND LEARNING RESOURCES



PRACTICE
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