

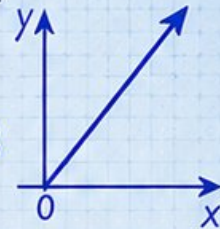
3 Pennsylvania PSSA

GRADE
6
MATH

PRACTICE TESTS

Standards Aligned Problem Solving
For Comprehensive Assessment Programs

$$y = 2x + 3$$



$$\frac{3}{5} + \frac{2}{10} = \frac{8}{10} = \frac{4}{5}$$

$$36\% \text{ of } 150 = ?$$



3 | PRINTED
TESTS



2 | ONLINE
TESTS



USE THESE TWO
ADDITIONAL ONLINE
PRACTICE TESTS
FOR EXTRA REVIEW AFTER
THE PRINTED TESTS
IN THIS BOOK.



Build
Confidence



Master Key
Math Skills



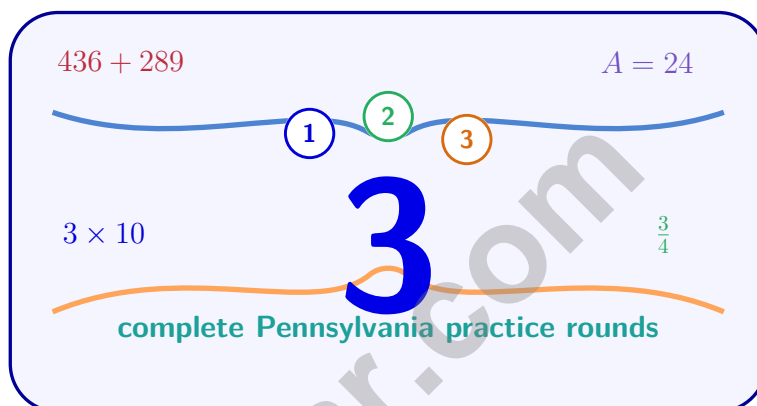
Answer Explanations
for Every Question



Test-Taking
Strategies That Work

3 Pennsylvania PSSA Grade 6 Math Practice Tests

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



Three 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!

Three focused rounds using Keystone practice habits

This book gives you three 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 three-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?

Three PSSA tests, 120 questions, and a full review path

Part	What You Will Practice
Tests 1–2	Foundation rounds for ratios, rational numbers, operations, and careful reading.
Test 3	Final stamina round for expressions, equations, geometry, data, problem models, and mixed review.
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.

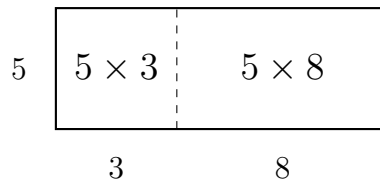


Scan me!
For more practice
& answers

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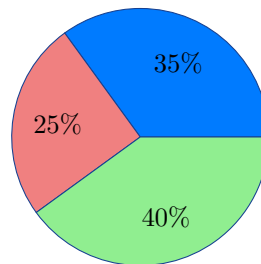
★ Practice Test 1	_____	12
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- 1) A student tries to use the area model below to find $5(3 + 8)$ but makes an error. The student writes: $5(3 + 8) = 15 + 8 = 23$. What is the error?



- A. 5 was only distributed to the first term
- B. The sum $3 + 8$ should equal 11, not both terms
- C. $5(3 + 8)$ should simplify to 55, not 23
- D. Choices A and C are both correct
- 2) What is $6,216 \div 38$?
- A. 163
- B. 164
- C. 165
- D. 168
- 3) A gym teacher records how many push-ups each student can do. Why is “How many push-ups can a student do?” a statistical question?
- A. Because push-ups require strength.
- B. Because different students can do different numbers of push-ups.
- C. Because the gym teacher asked it.
- D. Because it is asked in gym class.





4)

What is the central angle of the 35% section?

- A. 126° C. 108°
 B. 120° D. 135°

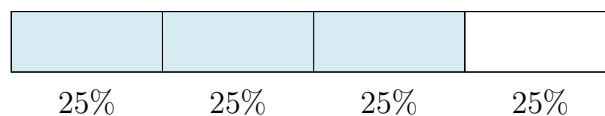
5) A catering company charges a constant fee per person. The graph shows points (6, 72) and (10, 120) on the line representing the cost-per-person ratio.

What is the cost per person?

- A. \$8 per person C. \$12 per person
 B. \$10 per person D. \$15 per person

6) Express 0.125 as a fraction and as a percent.

- A. $\frac{1}{8}$ and 12.5% C. $\frac{1}{2}$ and 50%
 B. $\frac{1}{4}$ and 25% D. $\frac{125}{1000}$ and 12.5%



7)

In the bar model above, the shaded region represents 75 students. How many students are there in total?

- A. 100 C. 200
 B. 150 D. 300



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1) Which phrase is closest in meaning to $m < 9$?

A. m is at most 9

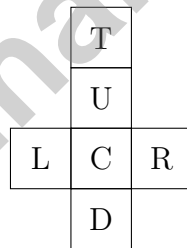
C. m is greater than 9

B. m is no less than 9

D. m is less than 9

2) A trapezoid has an area of 80 sq ft, one base of 14 ft, and a height of 10 ft. What is the length of the other base?

3) A cube net is shown in a cross pattern. The center square is labeled C , the four adjacent squares are labeled L (left), R (right), U (up), D (down). If there is one more square attached above U , which square is opposite to L ?



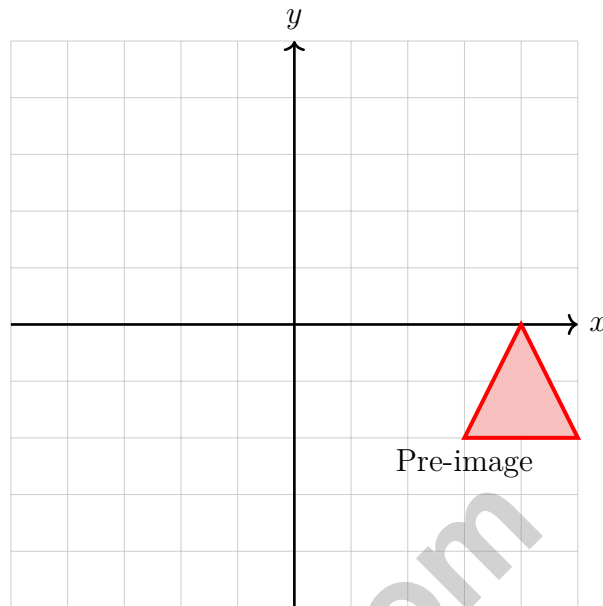
A. C

C. D

B. U

D. R





4)

A triangle with vertices at $(3, -2)$, $(5, -2)$, and $(4, 0)$ is translated 4 units left and 2 units up. What will be the image of the vertex originally at $(5, -2)$?

- A. $(1, 0)$
- B. $(9, -4)$
- C. $(1, -4)$
- D. $(9, 0)$

5) Find the volume of a rectangular prism with dimensions $\frac{3}{2}$ cm, 6 cm, and $\frac{8}{3}$ cm.



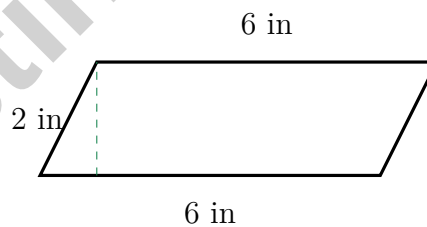
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& answers

- 1) A student creates a stem-and-leaf plot with stems 3, 4, 5 and forgets to order the leaves. The correct ordered plot should have leaves from smallest to largest. Which plot shows an ordering error?

Incorrect	Stem	Correct
3, 7, 5	2	3, 5, 7
9, 2, 6	3	2, 6, 9

What is the error in the incorrect plot?

- A. Stems are not ordered
 B. The first leaf should be a stem
 C. Too many leaves in stem 3
 D. Leaves are not ordered from smallest to largest
- 2) The base of a triangle is 15 inches. What height is needed to create an area of 90 in^2 ?
- A. 6 in
 B. 12 in
 C. 15 in
 D. 30 in



3)

What is the area of the parallelogram?

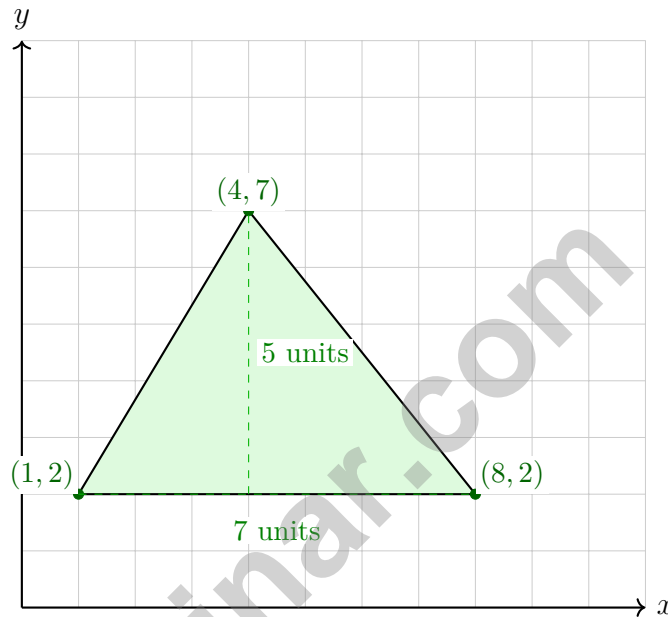
- A. 8 in^2
 B. 12 in^2
 C. 16 in^2
 D. 24 in^2



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& answers

4) A book storage unit is 2 ft by 1 ft by 3 ft. A larger unit is 3 ft by 2 ft by 2 ft. How many times larger is the second unit's volume?

- A. 1 time C. 3 times
 B. 2 times D. 4 times



5)

A student says this triangle has area 35 square units. What is the error in their reasoning?

- A. They forgot to divide by 2. C. They added instead of multiplying.
 B. They used the wrong height. D. There is no error.



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.



Scan me!
For more practice
& answers

Pennsylvania Practice Test Answers and Explanations

Review the three 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.E.3)** The student only multiplied $5 \times 3 = 15$ instead of distributing to both terms. The correct solution is $5(3 + 8) = 5 \cdot 3 + 5 \cdot 8 = 15 + 40 = 55$. The area model shows both parts, confirming both must be distributed to.
- Choice A is correct.** **(CC.2.1.6.E.1)** $6,216 \div 38 = 163$ remainder 22. Verify: $38 \times 163 + 22 = 6,216$.
- Choice B is correct.** **(CC.2.4.6.B.1)** The key is variability: each student has a different capacity, so data must be collected. It's not the context, the person asking, or the activity that matters—it's the expectation of varied answers.
- Choice A is correct.** **(CC.2.1.6.E.1)** 35% of 360° is $0.35 \times 360^\circ = 126^\circ$.
- Choice C is correct.** **(CC.2.1.6.D.1)** The unit rate is $\frac{72}{6} = 12$ dollars per person. Verify: $\frac{120}{10} = 12$ dollars per person ✓.
- Choice A is correct.** **(CC.2.1.6.E.1)** $0.125 = \frac{125}{1000} = \frac{1}{8}$ (simplify) = 12.5%.
- Choice A is correct.** **(CC.2.1.6.D.1)** Shaded portion is 75% of the total. If 75% equals 75 students, then $100\% = \frac{75}{0.75} = 100$ students.
- Choice C is correct.** **(CC.2.1.6.D.1)** Rate is $90 \div 2 = 45$ miles per hour. For 6 hours: $45 \times 6 = 270$ miles.
- Choice D is correct.** **(CC.2.1.6.D.1)** The correct conversion is 1 gallon = 4 quarts.
- Choice B is correct.** **(CC.2.1.6.D.1)** Discount amount: 25% of $\$80 = 0.25 \times 80 = \20 . Sale price: $\$80 - \$20 = \$60$.
- The correct answer is 9.** **(CC.2.1.6.D.1)** Strawberries are the 5-part amount. Since $15 \div 5 = 3$, each part is 3, and bananas are 3 parts: $3 \times 3 = 9$.
- Choice B is correct.** **(1.6.D)** The ratio is water:rice = 3 : 1. For 3 cups of rice, water = $3 \times 3 = 9$ cups. The ratio is constant (3:1 throughout), so the relationship is proportional.
- Choice C is correct.** **(CC.2.2.6.B.3)** Variable expenses: 35% of $\$600 = 0.35 \times 600 = \210 .
- Choice B is correct.** **(1.6.D)** Divide: $16 \text{ m} \div 8 \text{ cm} = 2 \text{ m per cm}$. Scale is 1 cm = 2 m.
- Choice C is correct.** **(CC.2.1.6.E.1)** Friendly reminder: when you divide by a fraction, you can multiply by its reciprocal ("flip" the divisor and multiply). $\frac{3}{4} \div \frac{1}{2} = \frac{3}{4} \times \frac{2}{1} = \frac{6}{4}$, which simplifies to $\frac{3}{2}$, or $1\frac{1}{2}$.
- Choice C is correct.** **(CC.2.1.6.E.1)** $2 \times 3 = 6$. We have $1 + 1 = 2$ decimal places, so 0.06 is correct.
- Choice C is correct.** **(CC.2.1.6.E.3)** This is an LCM problem. Prime factors: $15 = 3 \times 5$, $25 = 5^2$. $\text{LCM} = 3 \times 5^2 = 75$ minutes. 75 minutes after noon is 1 : 15 PM.
- Choice B is correct.** **(CC.2.1.6.E.1)** Starting at 0: $+50 - 35 + 20 = 35$ points.
- The correct answer is 4 : 6 = 2 : 3 (dividing by 2) and 4 : 6 = 8 : 12 (multiplying by 2)..** **(CC.2.1.6.D.1)** Nice checking: Choice A works because 4 : 6 simplifies to 2 : 3, and Choice B works because multiplying both parts of 4 : 6 by 2 gives 8 : 12. The other choices change the relationship.
- Choice B is correct.** **(CC.2.2.6.B.3)** The integer score is -12 because under par is represented with a negative number. Its absolute value, $|-12| = 12$, gives the magnitude only.
- Choice B is correct.** **(CC.2.1.6.E.3)** The midpoint between -2 and 2 is found by taking the average: $\frac{-2+2}{2} = 0$.
- Choice A is correct.** **(CC.2.1.6.D.1)** The boundary between Quadrants III and IV is the negative x -axis, where all points have $y = 0$ and $x < 0$.
- Choice A is correct.** **(CC.2.1.6.E.3)** $A = -0.5$ and $B = 2.5$. Since $-0.5 < 2.5$, we have $A < B$.
- The correct answer is 55 miles per hour.** **(CC.2.1.6.D.1)** Divide miles by hours: $55 \div 1 = 55$ miles per hour (or $165 \div 3 = 55$).
- Choice C is correct.** **(CC.2.2.6.B.2)** Same x -coordinate (3): $|5 - 0| = 5$ units.



Hi, Hero!

◇ Once there was a Grade 6 student who took 3 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 TODAY. SUCCEED TOMORROW!

This book includes 3 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:

- 3 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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REGULARLY



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