

4

COMPLETE

Pennsylvania PSSA

Grade

MATH

5

PRACTICE TESTS

Standards-Based Test Prep with
Mixed Review, Word Problems,
and **Full Answer Key**



- ✓ **4 COMPLETE PRACTICE TESTS**
Built to reflect the test format and rigor



- ✓ **COVERS ALL ESSENTIAL TOPICS**
Numbers & Operations, Fractions, Decimals, Geometry, Measurement, Data & Probability, and more



- ✓ **STRENGTHEN SKILLS & CONFIDENCE**
Mixed review, challenging questions, and strategic practice



- ✓ **FULL ANSWER KEY INCLUDED**
Detailed explanations for every question



**BUILD STRONG
MATH SKILLS
& TEST READINESS**



**IMPROVE ACCURACY,
SPEED, AND
PROBLEM SOLVING**



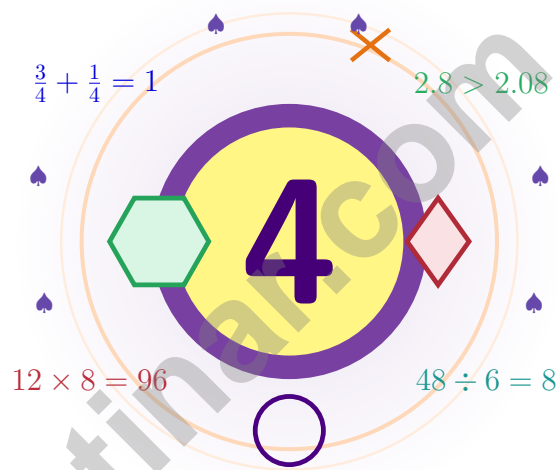
**PERFECT FOR
CLASSROOM,
HOME, OR
SELF-STUDY**



**ALIGNED TO
PENNSYLVANIA
STATE STANDARDS
(PSSA)**

4 Pennsylvania PSSA Grade 5 Math Practice Tests

Four full practice tests and the habits that carry you to the real one



Four full tests, a smart quick review, mission-style strategy pages, and student-tested support that help Grade 5 mathematicians from The Keystone State build calm, careful, confident habits.

Jay Daie and Reza Nazari



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Pennsylvania Grade 5: Mission Briefing

A four-test journey for Pennsylvania Grade 5 thinkers

Just for Pennsylvania Grade 5 Mission Specialists

This book gives you four chances to read closely, solve carefully, and level up your math thinking. Math is like a keystone arch – the middle stone holds the whole thing up, and every step around it matters.

You do not need to feel perfect before you begin. You just need to stay curious, use strategies, and learn from every correction. That is how confident mathematicians are built.

Read

Read every word and circle key numbers.

Solve

Solve cleanly so your work tells a story.

Reflect

Reflect on what worked and what wobbled.

A strong mission habit for Pennsylvania: keep your work neat, estimate when it helps, label units carefully, and never let one hard question decide your mood for the whole page.

Your Step-by-Step Plan

A four-step routine that turns practice into real improvement

Step 1: Notice

Notice the structure: warm-up, test, review, repair.

Wake up the big Grade 5 ideas before the test starts so your brain is already warmed up.

Step 2: Practice

Practice one full test in quiet conditions.

Find a calm corner, settle in, and aim for careful, honest choices before quick ones.

Step 3: Honest Check

Check honestly without rushing.

Circle missed questions, sort out what went sideways, and notice which skills are calling for attention.

Step 4: Polish

Polish the rough spots before test number two.

Read the explanation, fix the work, and carry that lesson into the very next test.

A Four-Week Pennsylvania Mission Map

Week	Mission Focus
Week 1	Take Test 1 and place your first keystone.
Week 2	Take Test 2 and aim attention at word problems and step-showing.
Week 3	Take Test 3 to polish fractions, decimals, and conversions.
Week 4	Take Test 4 with calm, careful, focused work.



Scan me

Meet the Four Tests

What these four practice tests help Grade 5 students build

These three practice tests prepare Grade 5 students in the Keystone State for the Pennsylvania PSSA with the careful focus of a town historian. The goal is bigger than collecting right answers. Students are practicing how to read carefully, choose a strategy, solve step by step, and explain their reasoning clearly – the same way mathematicians do every day.

Selected-Response Questions

Students solve the problem and choose the best answer. Estimating first, crossing out weak choices, and checking for reasonableness can save time and points.

Constructed-Response Questions

Students show steps, explain a method, or support an answer with clear math. Strong reasoning matters because it shows how the answer was found.

Grade 5 Ideas That Show Up Again and Again

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, mixed numbers, and decimals
- perimeter, area, volume, and measurement conversions
- tables, line plots, patterns, and coordinate points
- geometry and multi-step real-world problem solving

What strong PSSA-style work looks like: accurate math, readable steps, the right labels or units, and a final answer that really matches the question being asked.



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Grade 5 Mathematics Reference Materials

PERIMETER AND AREA

Perimeter of Rectangle $P = 2l + 2w$ or $P = 2(l + w)$

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Area of Triangle $A = \frac{1}{2} \times b \times h$

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LENGTH

Customary

1 foot (ft) = 12 inches (in.)

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CAPACITY

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TIME

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1 hour (hr) = 60 minutes (min) 1 year = 12 months

1 day = 24 hours (hr) 1 year = 52 weeks



1) Which pair of triangle descriptions can occur together?

- | | |
|---|---|
| <input type="checkbox"/> A. Right and equilateral | <input type="checkbox"/> C. Right and isosceles |
| <input type="checkbox"/> B. Acute and obtuse | <input type="checkbox"/> D. Isosceles and scalene |

2) Estimate $5\frac{1}{6} + 2\frac{7}{8}$ by rounding each mixed number to the nearest whole number.

Record your answer in the space provided.

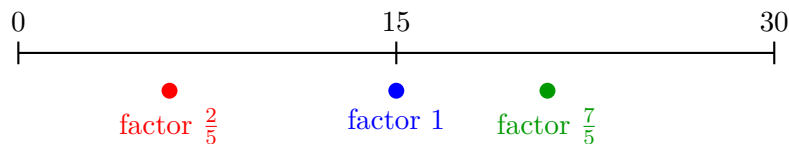
3) A coffee shop graphs sales. The x-axis shows hours open, and the y-axis shows cups sold. What does the point (7, 84) mean?

- | | |
|--|--|
| <input type="checkbox"/> A. hours open is 84 when cups sold is 7 | <input type="checkbox"/> C. cups sold is 84 when hours open is 7 |
| <input type="checkbox"/> B. hours open and cups sold are both 91 | <input type="checkbox"/> D. cups sold is 7 when hours open is 84 |

4) A student claims $\frac{3}{5} = \frac{3}{10}$ by adding 5 to the denominator. What mistake did they make?

- | | |
|--|---|
| <input type="checkbox"/> A. They should multiply both numerator and denominator by the same number | <input type="checkbox"/> C. The fractions are actually equivalent |
| <input type="checkbox"/> B. They added to the denominator but forgot to add to the numerator | <input type="checkbox"/> D. They should have subtracted instead |

5) Order these products from smallest to largest: $15 \times \frac{2}{5}$, 15×1 , $15 \times \frac{7}{5}$.



- | | |
|--|--|
| <input type="checkbox"/> A. $\frac{2}{5}$, 1, $\frac{7}{5}$ | <input type="checkbox"/> C. 1, $\frac{2}{5}$, $\frac{7}{5}$ |
| <input type="checkbox"/> B. $\frac{7}{5}$, 1, $\frac{2}{5}$ | <input type="checkbox"/> D. All equal |



6) Which product is greatest?

A. $\frac{1}{2} \times \frac{1}{2}$

B. $\frac{1}{4} \times \frac{1}{2}$

C. $\frac{1}{3} \times \frac{1}{2}$

D. $\frac{2}{3} \times \frac{1}{2}$

7) Match the expression with the context: A chef divides 7 cups of water into $\frac{1}{3}$ -cup servings for soup stock.

A. $7 \times \frac{1}{3}$

B. $7 \div \frac{1}{3}$

C. $7 - \frac{1}{3}$

D. $\frac{1}{3} \div 7$

8) A point is 4 units to the right of the origin and above the x-axis. Which ordered pair could show the point?

A. (4, 0)

B. (3, 4)

C. (4, 3)

D. (0, 4)

9) When you multiply 7.2 by a number less than 1, what will be true about the product?

 A. The product is larger than 7.2 B. The product is smaller than 7.2 C. The product equals 7.2 D. The product is negative

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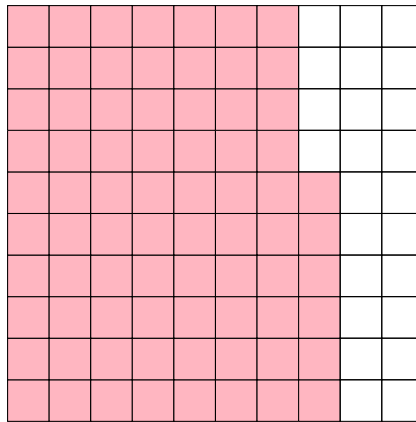
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1) What decimal is represented by the shaded grid?

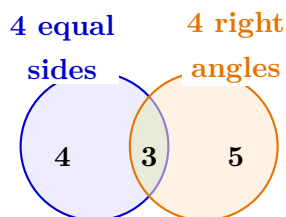


- A. 0.67
- B. 0.76
- C. 7.6
- D. 76

2) Which benchmark is closest to the sum $\frac{3}{8} + \frac{2}{7}$?

- A. 0
- B. 2
- C. 1
- D. $\frac{1}{2}$

3) A Venn diagram has circles for “4 equal sides” and “4 right angles.” There are 4 rhombuses that are not squares, 5 rectangles that are not squares, and 3 squares. How many figures have 4 equal sides?



- A. 7
- B. 8
- C. 12
- D. 3



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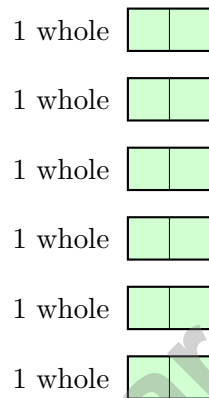


1) Two friends are cutting rope. One piece is $\frac{3}{5}$ meter and the other is $\frac{1}{4}$ meter. What is the total length?

- A. $\frac{4}{9}$ meter
- B. $\frac{17}{20}$ meter

- C. $\frac{3}{20}$ meter
- D. 1 meter

2) The model shows 6 wholes, with each whole cut into pieces of size $\frac{1}{2}$. How many pieces of size $\frac{1}{2}$ are there in all?

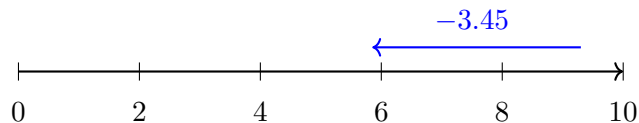


6 wholes, each cut into pieces of size $\frac{1}{2}$

- A. 8
- B. 12

- C. 2
- D. 6

3) Using the number line, what value does the arrow land on for $9.30 - 3.45$?



- A. 5.85
- B. 5.95

- C. 6.05
- D. 5.75



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Practice Test Answer Keys

How to use this section:

1. check your answer
2. circle missed questions
3. rework them before reading the explanation

Good correction habits build strong scores.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice C is correct.** **(CC.2.3.5.A.2)** A right isosceles triangle has one 90-degree angle and two equal sides (the legs).
- 2) **The correct answer is about 8.** **(CC.2.1.5.B.1)** $5\frac{1}{6} \approx 5$ and $2\frac{7}{8} \approx 3$, so the sum is about 8. Accept equivalent estimates that are clearly close to 8.
- 3) **Choice C is correct.** **(CC.2.3.5.A.1)** The first coordinate, 7, matches the x-axis label: hours open. The second coordinate, 84, matches the y-axis label: cups sold. So the point means cups sold is 84 when hours open is 7.
- 4) **Choice A is correct.** **(CC.2.1.5.C.1)** To create equivalent fractions, you must multiply or divide both numerator and denominator by the same nonzero number. Changing only the denominator creates a different fraction. The correct equivalent would be $\frac{3}{5} = \frac{6}{10}$ (multiply both by 2).
- 5) **Choice A is correct.** **(CC.2.3.5.A.2)** Since $\frac{2}{5} < 1 < \frac{7}{5}$, the products increase in that order.
- 6) **Choice D is correct.** **(CC.2.1.5.C.2)** Compare products: $A = \frac{1}{4}$, $B = \frac{1}{3}$ (largest), $C = \frac{1}{6}$, $D = \frac{1}{8}$.
- 7) **Choice B is correct.** **(CC.2.1.5.C.2)** Dividing a whole amount into unit-fraction portions is expressed as whole \div unit fraction, so $7 \div \frac{1}{3}$.
- 8) **Choice C is correct.** **(CC.2.3.5.A.1)** The ordered pair (4, 3) has first coordinate 4, so it is 4 units right of the origin. Its second coordinate is greater than 0, so it is above the x-axis.
- 9) **Choice B is correct.** **(CC.2.1.5.B.1)** When a number is multiplied by a factor less than 1, the product is smaller than the original number.
- 10) **Choice D is correct.** **(3.5.A.1)** Rule A: 2, 6, 10; Rule B: 1, 4, 7. Second pair is (6, 4), third is (10, 7).
- 11) **Choice B is correct.** **(CC.2.1.5.B.1)** 7.19 has a tenths digit of 1 and hundredths digit of 9. Since $9 \geq 5$, round the tenths up from 1 to 2, giving 7.2.
- 12) **Choice C is correct.** **(CC.2.1.5.C.2)** Three jumps of $\frac{1}{3}$ land at $\frac{3}{3} = 1$.
- 13) **Choice C is correct.** **(1.5.B)** Multiplying by 1,000 moves the decimal three places right: $1.2 \rightarrow 12 \rightarrow 120 \rightarrow 1,200$.
- 14) **Choice D is correct.** **(CC.2.4.5.A.1)** Since 1 pint = 16 fl oz, multiply 2 by 16: $2 \times 16 = 32$ fl oz.
- 15) **The correct answer is $\frac{1}{15}$.** **(CC.2.4.5.A.4)** A correct model shows one whole divided into 5 equal parts, with one fifth split into 3 equal smaller parts. Each small part is $\frac{1}{15}$ of the whole.
- 16) **Choice C is correct.** **(CC.2.4.5.A.4)** $\frac{3}{5} + \frac{1}{5} = \frac{4}{5}$ mile. Add numerators when denominators match.
- 17) **Choice B is correct.** **(CC.2.3.5.A.2)** $36 \times \frac{2}{9} = \frac{72}{9} = 8$ crayons. The fraction is less than 1, so the product is smaller than the original amount.
- 18) **Choice D is correct.** **(CC.2.3.5.A.1)** $\frac{1}{5} = \frac{3}{15}$. $\frac{11}{15} - \frac{3}{15} = \frac{8}{15}$.
- 19) **Choice D is correct.** **(CC.2.4.5.A.5)** $V = 2 \times 3 \times 5 = 30$ cubic feet.
- 20) **Choice B is correct.** **(1.5.B)** $1.5 \times 100 = 150$.
- 21) **Choice A is correct.** **(CC.2.3.5.A.1)** Prism A has base area $10 \times 8 = 80$ square centimeters, and $240 \div 80 = 3$, so its height is 3 cm. Prism B has base area $12 \times 10 = 120$ square centimeters, and $240 \div 120 = 2$, so its height is 2 cm. Prism A has the greater height.
- 22) **Choices A, B are correct.** **(CC.2.4.5.A.4)** The value $\frac{1}{2}$ appears two times, more than any other value. There are four measurements total, so C and D do not fit the data.
- 23) **Choice B is correct.** **(3.5.A.1)** When the input is 4, Rule A gives $2 \times 4 = 8$ and Rule B gives $4 \times 4 = 16$, so the ordered pairs are (4, 8) and (4, 16).
- 24) **Choice D is correct.** **(3.5.A.2)** A square has two pairs of opposite sides that are parallel and equal, which makes it a parallelogram. In fact, a square is a special type of parallelogram.
- 25) **Choice A is correct.** **(CC.2.1.5.B.1)** Write 18.40 so each place is lined up. Borrow from the tenths to subtract hundredths: $10 - 7 = 3$ hundredths. Then tenths: $3 - 2 = 1$; ones: $8 - 5 = 3$; tens: $1 - 0 = 1$. So $18.40 - 5.27 = 13.13$.
- 26) **Choice A is correct.** **(CC.2.4.5.A.1)** Total needed: 5 feet 6 inches = 66 inches. Already bought: 2 feet 10 inches = 34 inches. Remaining: $66 - 34 = 32$ inches = 2 feet 8 inches.
- 27) **The correct answer is $4\frac{1}{4}$ feet.** **(CC.2.4.5.A.4)** $3 \times \frac{3}{4} + 2 \times \frac{1}{2} + 1 = 2\frac{1}{4} + 1 + 1 = 4\frac{1}{4}$ feet.



Star Player Pep Talk

To My Star Math Player,

◇ 4 practice tests. Every one of them was a chance to grow, and every one of them you took. That's why your math game is at a new level today. ◇

★ **Star players know:** confidence comes from preparation. You can't fake confidence. You build it. You built yours through these 4 tests. So when test day shows up, your confidence will be real, because your work was real. ★

Star Player Stats

- **Practice Hours:** OFF THE CHARTS!
- **Skill Range:** BROAD! You can handle different problem types.
- **Mental Toughness:** HIGH! You don't quit on hard problems.
- **Game-Day Plan:** READY! You know your strategies.

Star tip: the best players don't try to be perfect on every play. They focus on the next play. Do that on the test. One problem at a time. One small win at a time. You add them up to a great score.

If you'd like to share your experience or have questions, please email me at reza@testinar.com. I'd love to hear from you!

Reza Nazari & Jay Daie

Your Math Coaches (Go Star!)

4 COMPLETE TESTS. CONFIDENCE. SUCCESS.



Give your child the practice and confidence they need to excel in **Grade 5 Math**. This book includes **4 full-length** practice tests designed to build skills, improve test readiness, and help students reach their full potential.

WHAT'S INSIDE:



4 COMPLETE PRACTICE TESTS

Full-length tests that reflect real test format and rigor.



COVERS ALL GRADE 5 TOPICS

Numbers & Operations, Fractions, Decimals, Geometry, Measurement, Data & Probability, and more.



MIXED REVIEW & WORD PROBLEMS

Build problem-solving skills with mixed review questions and real-world word problems.



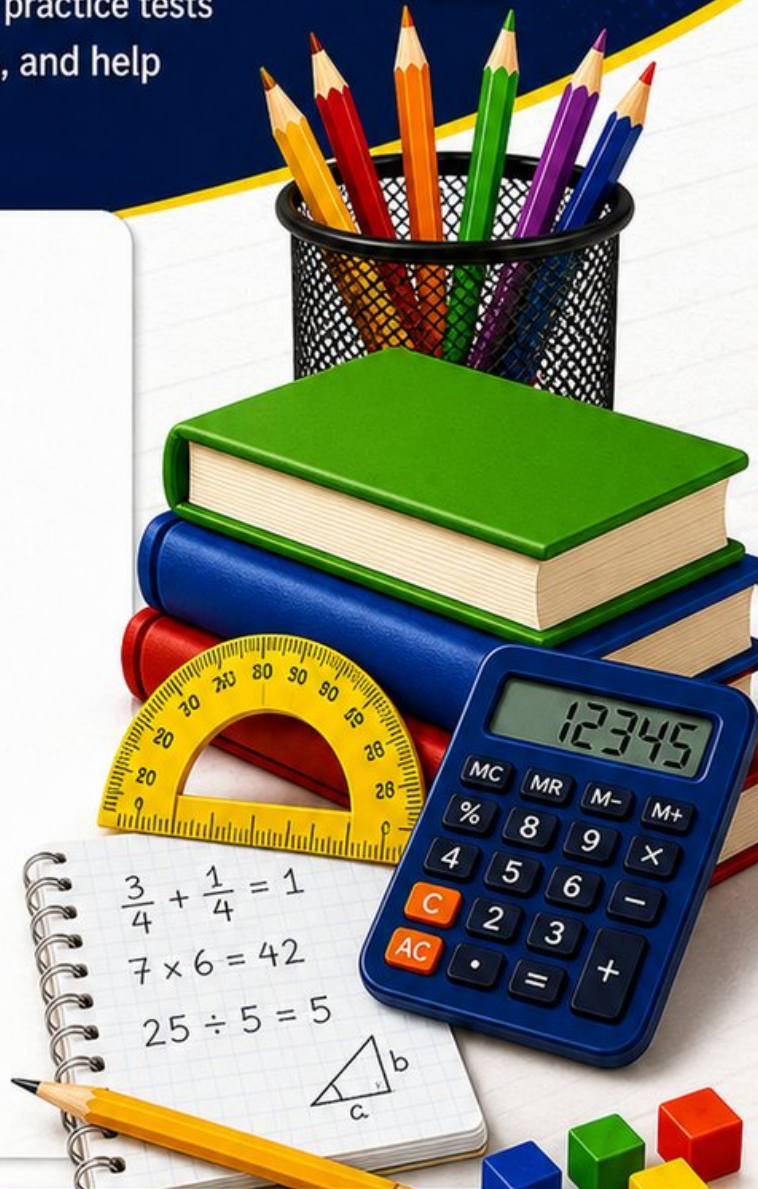
DETAILED ANSWER KEY

Step-by-step explanations for every question to help students learn and improve.



BUILD CONFIDENCE & IMPROVE SCORES

Practice consistently, reduce test anxiety, and achieve your best score!



PRACTICE SMART. LEARN MORE. ACHIEVE YOUR BEST.



Strengthen
Math Skills



Improve
Accuracy
& Speed



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Essential
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Boost
Confidence
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