

# 10 COMPLETE

## Pennsylvania

# PSSA

## GRADE 5

# MATH

## PRACTICE TESTS

Standards-Based Review with  
Mixed Practice and Detailed Answer Key



### 10 Complete Practice Tests

Build confidence and test readiness



### Standards-Based Review

Covers key Grade 5 math standards



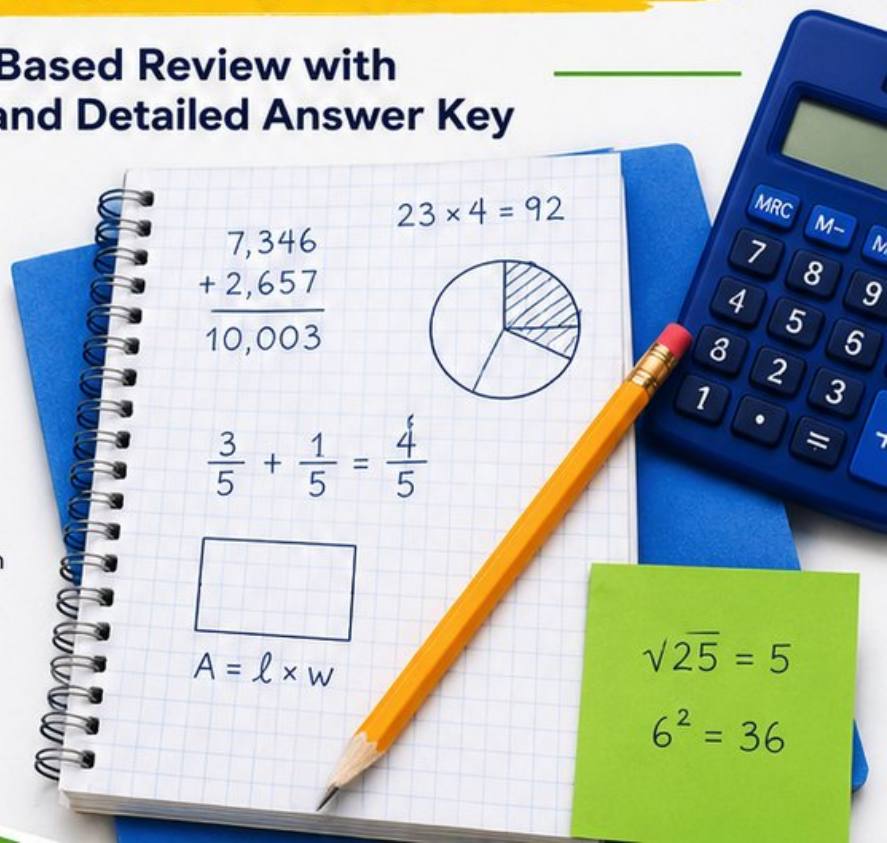
### Mixed Practice

Variety of question types to strengthen skills



### Detailed Answer Key

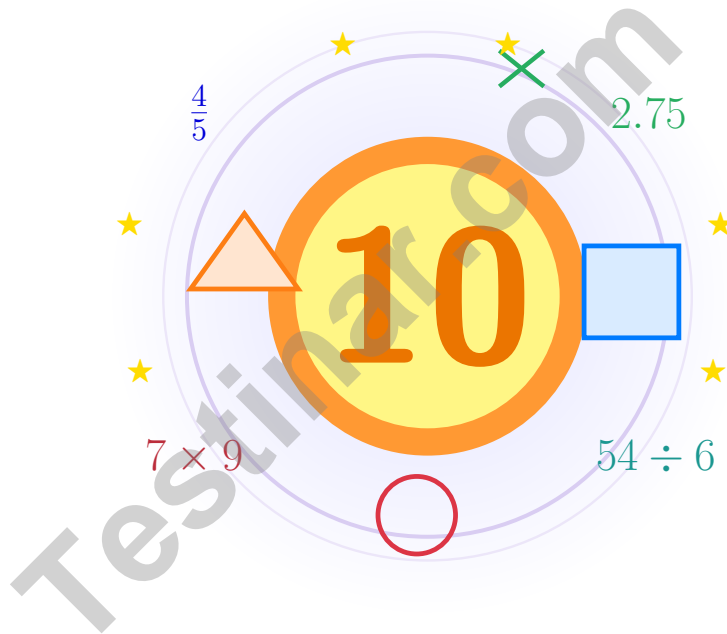
Step-by-step explanations for every question



**PREPARE.  
PRACTICE.  
SUCCEED!**

# 10 Pennsylvania PSSA Grade 5 Math Practice Tests

*Bright review, thoughtful practice, and steady confidence for Grade 5*



Ten full tests, a focused quick review, and student-friendly support that keeps practice clear and encouraging.

**Jay Daie and Reza Nazari**



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# Welcome!

This book is a place to practice bravely and think clearly

## Dear Grade 5 Mathematician

This book gives you ten chances to read carefully, solve thoughtfully, and build steady math confidence. Some problems will feel friendly right away. Some will take more patience. Both kinds help you grow.

The goal is not to feel perfect before you begin. The goal is to practice honest effort, learn from corrections, and notice how much stronger your thinking becomes over time.

### Read

Slow down and understand the task.

### Solve

Show clear steps and good choices.

### Learn

Use mistakes as clues for what comes next.

**A strong habit from the start:** keep your work neat, estimate when it helps, write units carefully, and do not let one hard problem decide your mood for the whole page.



# How to Use This Book

A simple routine that turns practice into real progress

## Step 1

**Warm up with the quick review.**  
Spend a few minutes refreshing the ideas before the test begins.

## Step 2

**Take one full practice test.**  
Work in a calm spot and aim for careful thinking before speed.

## Step 3

**Check your work honestly.**  
Circle missed questions and notice which skills need another look.

## Step 4

**Fix and reflect.**  
Read the explanation, repair the work, and bring that lesson into the next test.



**A Good 10-Week Rhythm**

<b>Week 1</b>	Take Test 1 and notice your starting strengths.
<b>Week 2</b>	Take Test 2 and slow down on word problems.
<b>Week 3</b>	Take Test 3 and sharpen multiplication and division checks.
<b>Week 4</b>	Take Test 4 and focus on fractions and decimals.
<b>Week 5</b>	Take Test 5 and watch your labels and units closely.
<b>Week 6</b>	Take Test 6 and practice calmer pacing.
<b>Week 7</b>	Take Test 7 and compare your habits with the earlier weeks.
<b>Week 8</b>	Take Test 8 and focus on tidy, checkable work.
<b>Week 9</b>	Take Test 9 and compare your progress with the way you worked in the earlier weeks.
<b>Week 10</b>	Take Test 10 and finish with steady, confident effort while using every strong habit you built.



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## Grade 5 Mathematics Reference Materials

### PERIMETER AND AREA

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

Area of Rectangle  $A = l \times w$

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

Volume of Rectangular Prism  $V = l \times w \times h$

### LENGTH

#### Customary

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

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

#### Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

1 kilometer (km) = 1,000 meters (m)

### CAPACITY

#### Customary

1 cup (c) = 8 fluid ounces (fl oz)

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

#### Metric

1 liter (L) = 1,000 milliliters (mL)

### WEIGHT AND MASS

#### Customary

1 pound (lb) = 16 ounces (oz)

#### Metric

1 kilogram (kg) = 1,000 grams (g)

1 gram (g) = 1,000 milligrams (mg)

### TIME

1 minute (min) = 60 seconds (sec)

1 week = 7 days

1 hour (hr) = 60 minutes (min)

1 year = 12 months

1 day = 24 hours (hr)

1 year = 52 weeks



1) A store stacks 4 identical rectangular boxes. Each box measures 5 feet by 3 feet by 2 feet. What is the total volume of all the boxes?

- A. 30 cubic feet                       C. 150 cubic feet  
 B. 34 cubic feet                       D. 120 cubic feet

2) Subtract:  $5\frac{2}{3} - 1\frac{5}{6}$ . First convert to sixths.

- A.  $3\frac{5}{6}$                                        C.  $3\frac{2}{3}$   
 B.  $3\frac{1}{2}$                                        D.  $4\frac{1}{6}$

3) A wall is 30 feet long. A painter covers  $\frac{2}{3}$  of it. Does the painter cover more than 30 feet or less than 30 feet?

- A. More than 30 feet                       C. Exactly 30 feet  
 B. Less than 30 feet                       D. Cannot be determined

4) Find the sum:  $4\frac{5}{6} + 1\frac{1}{3}$ .

*Record your answer in the space provided.*

5) Find:  $\frac{3}{8} \times 100$ .

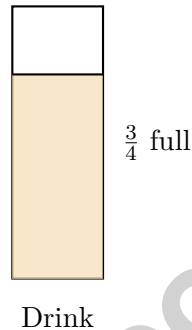
*Record your answer in the space provided.*



6) A recipe uses 2.5 cups of flour for each batch. How much flour is needed for 6 batches?

- A. 12 cups                       C. 15 cups  
 B. 13 cups                       D. 18 cups

7) A drink contains  $\frac{2}{5}$  sugar by volume. If you have  $\frac{3}{4}$  liter of the drink, how much sugar is in it? Give the answer in simplest form.



- A.  $\frac{6}{9}$  liter sugar                       C.  $\frac{1}{2}$  liter sugar  
 B.  $\frac{2}{3}$  liter sugar                       D.  $\frac{3}{10}$  liter sugar
- 8) A printer has 10 packs of paper. Each booklet uses  $\frac{1}{8}$  of a pack. How many booklets can be made?
- A. 60 booklets                       C. 100 booklets  
 B. 80 booklets                       D. 120 booklets
- 9) What is  $48 \div 100$ ?
- A. 4.8                                   C. 4800  
 B. 0.48                                 D. 0.048



## Grade 5 Mathematics Reference Materials

### PERIMETER AND AREA

Perimeter of Rectangle	$P = 2l + 2w$ or $P = 2(l + w)$
Area of Rectangle	$A = l \times w$
Area of Triangle	$A = \frac{1}{2} \times b \times h$
Volume of Rectangular Prism	$V = l \times w \times h$

### LENGTH

Customary	Metric
1 foot (ft) = 12 inches (in.)	1 meter (m) = 100 centimeters (cm)
1 yard (yd) = 3 feet (ft)	1 centimeter (cm) = 10 millimeters (mm)
1 yard (yd) = 36 inches (in.)	1 kilometer (km) = 1,000 meters (m)

### CAPACITY

Customary	Metric
1 cup (c) = 8 fluid ounces (fl oz)	1 liter (L) = 1,000 milliliters (mL)
1 pint (pt) = 2 cups (c)	
1 quart (qt) = 2 pints (pt)	
1 gallon (gal) = 4 quarts (qt)	

### WEIGHT AND MASS

Customary	Metric
1 pound (lb) = 16 ounces (oz)	1 kilogram (kg) = 1,000 grams (g)
	1 gram (g) = 1,000 milligrams (mg)

### TIME

1 minute (min) = 60 seconds (sec)	1 week = 7 days
1 hour (hr) = 60 minutes (min)	1 year = 12 months
1 day = 24 hours (hr)	1 year = 52 weeks



- 1) What is the best unit for measuring the volume of a sugar cube?



Sugar cube

- A. Cubic meters                       C. Cubic feet  
 B. Cubic kilometers                 D. Cubic centimeters
- 2) Round 12.652 to the nearest hundredth.

*Record your answer in the space provided.*

- 3)

**Properties Table**

Shape	Parallel sides	Must have all sides equal	90° angles
Square	✓	✓	✓
Rectangle	✓	–	✓
Rhombus	✓	✓	–
Parallelogram	✓	–	–

A shape has both pairs of opposite sides parallel. Which property confirms it is a parallelogram?

- A. It has four sides.                       C. It is a quadrilateral.  
 B. Both pairs of opposite sides are parallel.                 D. Only two sides are parallel.



38) Which decimal rounds to 14 when rounding to the nearest whole number?

A. 13.4

C. 14.4

B. 13.49

D. 14.6

39) Subtract:  $16\frac{2}{6} - 9\frac{4}{6}$ .

Minuend:  $16\frac{2}{6}$

Subtrahend:  $9\frac{4}{6}$

Since  $\frac{2}{6} < \frac{4}{6}$ , borrow 1:

$$15\frac{8}{6} - 9\frac{4}{6} = ?$$

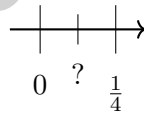
A.  $6\frac{1}{3}$

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

B.  $6\frac{2}{3}$

D.  $7\frac{2}{3}$

40) A number line shows the interval from 0 to  $\frac{1}{4}$  marked as a single unit. This interval is divided into 2 equal parts. What number marks the first division?



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

C.  $\frac{1}{6}$

B.  $\frac{1}{8}$

D.  $\frac{1}{4}$

## End of Practice Test

Nice work. Pause, breathe, and check your answers with care.



Grade 5 Mathematics

10

Questions: 40 Duration: No time limit

Calculator Policy: Calculators are not allowed



## 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

- Choice D is correct.** (CC.2.3.5.A.1) One box has volume  $5 \times 3 \times 2 = 30$  cubic feet. There are 4 boxes, so  $30 \times 4 = 120$  cubic feet.
- Choice A is correct.** (CC.2.1.5.C.1) Convert to sixths:  $5\frac{2}{3} = 5\frac{4}{6}$ . Borrow 1 to get  $4\frac{10}{6} - 1\frac{5}{6} = 3\frac{5}{6}$ .
- Choice B is correct.** (CC.2.3.5.A.2)  $30 \times \frac{2}{3} = 20$  feet. Since  $\frac{2}{3} < 1$ , the painted length is less than 30 feet.
- The correct answer is  $6\frac{1}{6}$ .** (CC.2.1.5.C.1)  $4 + 1 = 5$ .  $\frac{5}{6} + \frac{2}{6} = \frac{7}{6} = 1\frac{1}{6}$ . Total:  $5 + 1\frac{1}{6} = 6\frac{1}{6}$ .
- The correct answer is  $37\frac{1}{2}$ .** (CC.2.3.5.A.2) One eighth of 100 is  $12\frac{1}{2}$ . Three eighths is  $3 \times 12\frac{1}{2} = 37\frac{1}{2}$ .
- Choice C is correct.** (CC.2.1.5.B.1) Each batch uses 2.5 cups, so multiply by the number of batches:  $2.5 \times 6 = 15$ . The total is 15 cups.
- Choice D is correct.** (CC.2.4.5.A.4)  $\frac{2}{5} \times \frac{3}{4} = \frac{6}{20}$ , which simplifies to  $\frac{3}{10}$  liter of sugar.
- Choice B is correct.** (CC.2.4.5.A.4) Each pack makes 8 eighth-pack booklets.  $10 \div \frac{1}{8} = 10 \times 8 = 80$  booklets.
- Choice B is correct.** (1.5.B) Dividing by 100 makes the number one-hundredth as large. Move the decimal two places left:  $48 \rightarrow 0.48$ .
- Choice B is correct.** (CC.2.1.5.C.2)  $\frac{5}{6} \times \frac{2}{5} = \frac{10}{30}$ , which simplifies to  $\frac{1}{3}$ .
- Choice D is correct.** (CC.2.4.5.A.5)  $V = 12 \times 6 \times 2 = 72 \times 2 = 144 \text{ cm}^3$ .
- Choice A is correct.** (CC.2.1.5.C.2)  $\frac{1}{3} \times 3\frac{1}{3} = \frac{1}{3} \times \frac{10}{3} = \frac{10}{9} = 1\frac{1}{9}$  cups.
- Choice D is correct.** (CC.2.3.5.A.1) Ribbon per project =  $\frac{3}{8} \times \frac{2}{3} = \frac{6}{24} = \frac{1}{4}$  meter.
- Choice B is correct.** (3.5.A.1) Compare each pair:  $1 \times 7 = 7$ ,  $2 \times 7 = 14$ ,  $3 \times 7 = 21$ , and  $4 \times 7 = 28$ .
- Choice D is correct.** (CC.2.1.5.C.1) Listing multiples helps you find the smallest number both denominators divide into evenly. That smallest shared multiple is the least common denominator.
- The correct answer is  $7 \div \frac{1}{2} = 14$ .** (CC.2.4.5.A.4) We are counting how many halves fit in 7 wholes, so  $7 \div \frac{1}{2} = 14$ . Accept an equivalent division equation or the final value.
- Choice A is correct.** (CC.2.2.5.A.1) The phrase “the difference of 20 and 5” means group  $20 - 5$  first. “Double” means multiply that whole difference by 2.
- Choice D is correct.** (CC.2.3.5.A.1) The known length and height make groups of  $15 \times 9 = 135$  cubic centimeters. Since  $540 \div 135 = 4$ , the width is 4 cm.
- Choices A, B are correct.** (CC.2.1.5.C.1) C gives  $\frac{3}{6} = \frac{1}{2}$ ; D gives  $\frac{7}{12}$ .
- Choice B is correct.** (CC.2.1.5.C.2)  $\frac{2}{3} \times 6 = \frac{12}{3} = 4$ .
- Choice C is correct.** (CC.2.4.5.A.5) Each layer has  $4 \times 3 = 12$  unit cubes. With 2 layers, the total is  $12 \times 2 = 24$  unit cubes.
- Choice C is correct.** (CC.2.1.5.C.2)  $5 \div \frac{1}{3} = 5 \times 3 = 15$ . She uses 15 batches.
- Choice C is correct.** (CC.2.4.5.A.5) Volume =  $11 \times 9 \times 7 = 693$  cubic meters.
- Choice A is correct.** (CC.2.1.5.B.1)  $0.6 \times 10 = 6$ . The digit 6 was in the tenths place and moves to the ones place.
- Choice A is correct.** (CC.2.2.5.A.4) Each term is made by multiplying the previous term by 3:  $1 \times 3 = 3$ ,  $3 \times 3 = 9$ , and  $9 \times 3 = 27$ . Continue the rule:  $27 \times 3 = 81$ .
- Choice A is correct.** (CC.2.1.5.C.2)  $\frac{1}{10} \div 2 = \frac{1}{10} \times \frac{1}{2} = \frac{1}{20}$ .
- Choice A is correct.** (CC.2.3.5.A.1) From (5, 5) to (5, 2), the y-coordinate changes from 5 to 2. The distance is  $5 - 2 = 3$  units downward.
- Choice B is correct.** (CC.2.3.5.A.2) The small square shows a right angle. The equal legs (marked) show two equal sides, making it isosceles.
- Choice A is correct.** (CC.2.2.5.A.1) First find all the cookies on the trays:  $5 \times 12 = 60$ . Then subtract the 20 cookies sold, leaving  $60 - 20 = 40$  cookies.
- The correct answer is 60.** (CC.2.4.5.A.1)  $0.6 \times 100 = 60$  cm. Multiplying by 100 changes meters into centimeters.
- Choice B is correct.** (CC.2.4.5.A.4) Common denominator is 30:  $\frac{2}{5} = \frac{12}{30}$  and  $\frac{1}{6} = \frac{5}{30}$ . So  $\frac{12}{30} + \frac{5}{30} = \frac{17}{30}$ .



**Dear Math Champion,**

◇ Look at what you did. 10 full practice tests. Hundreds of math problems. Every one of them strengthened your mind. You walked into this prep series as a learner, and you are walking out as a math athlete who knows how to compete. ◇

★ **What champions know:** talent is helpful, but training is everything. You trained. You showed up. You did the work. That is why your skills are sharp today. ★

**Champion's Skill Card**

- **Focus:** MAXED OUT! You can lock onto a problem and stay there.
- **Speed:** CALIBRATED! You move quickly without rushing.
- **Accuracy:** HIGH! You catch your own mistakes.
- **Mindset:** CHAMPION-LEVEL! You believe in your skills.

**Final champion tip:** on test day, walk in like you have trained for it—because you have. Sit down. Breathe. Read carefully. Work steadily. Check confidently. You will be amazed at how prepared you actually are.

If you want to share a proud moment or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com). I'd love to hear from you!

**Jay Daie**

Your Math Coaches (Champion-in-Training)

# PRACTICE TODAY. MASTER TOMORROW.

Give your child the confidence to excel in **Grade 5 Math!**  
This book includes **10 complete practice tests** designed to build strong skills, improve test readiness, and achieve success.



# 10

## COMPLETE PRACTICE TESTS

- ✓ Realistic. Rigorous.
- ✓ Results-Driven.

More practice today for a **stronger** tomorrow.

## THIS BOOK HELPS YOUR CHILD:



### Build Confidence

Familiar, focused practice reduces anxiety and boosts self-belief.



### Strengthen Skills

Reinforces key math concepts through high-quality, standards-aligned questions.



### Improve Test Readiness

Full-length tests help students understand test format, pacing, and question types.



### Track Progress

Identify strengths and target areas with purposeful practice.



### Achieve Success

Better preparation leads to higher scores and bright futures.

## COVERS ALL ESSENTIAL TOPICS

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Graphing & Data Analysis
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ And More!



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Aligned to Standards



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