

9

# Pennsylvania PSSA

## GRADE 3 MATH PRACTICE TESTS

COMPLETE STANDARDS REVIEW WITH SKILL PRACTICE,  
WORD PROBLEMS, AND ANSWER KEY



10

FOR THE COMPREHENSIVE ASSESSMENT PROGRAM



# 9 Pennsylvania PSSA Grade 3 Math Practice Tests

*Standards-Aligned Review with Mixed Practice and Answer Key*



Nine complete 30-question Grade 3 practice rounds with operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

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# Pennsylvania, Start Your Nine-Round Math Rally

A calm Grade 3 path from first try to confident finish

This book gives you nine chances to practice like a thoughtful Pennsylvania PSSA test taker. Each round mixes numbers, shapes, fractions, data, measurement, and word problems so your brain learns to switch skills calmly.

Pennsylvania has mountain ridges, old rail lines, farm markets, city blocks, and careful schoolwork, where careful steps matter. Strong math follows that same idea: solve what the question asks, choose a useful tool, show the work, and check before moving on.

## Your Pennsylvania Math Promise

I will slow down enough to understand the question. I will show the work that helps me think. I will use mistakes as practice fuel, then try again with a sharper plan.

**Nine rounds is not about rushing. It is about building a math habit that stays strong.**

## How to Use This Book

A nine-session routine for clear Pennsylvania review

1. **Warm up first.** Read the quick review pages and remind yourself of the big ideas.
2. **Take one test at a time.** Work without rushing. Circle words, sketch models, and label units.
3. **Check the answer key.** Mark correct answers, then star questions that need another look.
4. **Read explanations after trying again.** The explanation works best after your brain has wrestled with the problem.
5. **Use the growth log.** Track the score, one strong habit, and one skill to practice next.

**Good rhythm:** Test one day, review the next day, then take the next test when your corrections feel clear. In Pennsylvania, that steady routine turns nine tests into one organized prep plan.



# What Is Inside the Nine Tests?

Mixed Grade 3 practice with PSSA support

Part	What You Practice
Nine full tests	30 mixed Grade 3 questions in each round
Question styles	Multiple choice, select-all, and open-ended work spaces
Math topics	Operations, patterns, rounding, fractions, measurement, data, area, perimeter, and shapes
Answer support	Compact answer keys plus explanations for every item
Standards help	A Pennsylvania standards reference and standard-code boxes in explanations

**Why mixed practice helps:** Real tests do not announce the next skill. These nine rounds help students recognize the math move they need, even when the topic changes from question to question.



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1) Lily and Mia are comparing rectangles. Lily's rectangle is 6 units long and 5 units wide. Mia's rectangle is 7 units long and 4 units wide. Who has the larger area?

- A. Mia  
 B. Lily  
 C. They are equal  
 D. Cannot be determined

2) Sam solved this problem:  $\square \times 8 = 56$ . He wrote the answer  $\square = 7$ . Is his answer correct?

- A. Yes, because  $7 \times 8 = 56$ .  
 B. No, the correct answer is 6.  
 C. No, the correct answer is 8.  
 D. No, the correct answer is 9.

3) Mia measures juice in three containers. Container 1 has 1000 mL, Container 2 has 500 mL, and Container 3 has 500 mL. What is the total?

- A. 1000 mL  
 B. 1500 mL  
 C. 2000 mL  
 D. 3000 mL

4) A square tile has sides of 6 centimeters. How many unit squares cover the tile? Explain how you counted: did you count by rows or skip-count?



5) Mia gives 3 friends 8 stickers each. How many stickers does she give in all?

- A. 11 stickers (adds  $3 + 8$ )  
 B. 17 stickers (counts partial:  $8 + 8 + 1$ )  
 C. 21 stickers (off by one group:  $3 \times 7$ )  
 D. 24 stickers



6) Noah has 18 crayons and 2 friends. He divides the crayons equally among his friends and himself. How many crayons does each person get?

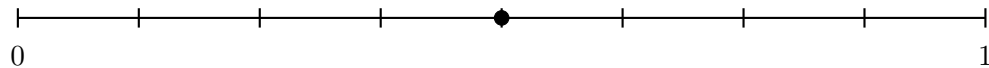
A. 9

C. 20

B. 16

D. 6

7) A number line from 0 to 1 is divided into 8 equal parts. How many parts from 0 to  $\frac{4}{8}$ ?



A. 2 parts

C. 4 parts

B. 3 parts

D. 5 parts

8) Ben shares 35 toy blocks equally among 7 friends. How many blocks does each friend get?

A. 4

C. 28

B. 42

D. 5

9) A rectangular floor needs 6 rows of tiles with 9 tiles in each row. How many tiles are needed in total?

A. 15

C. 36

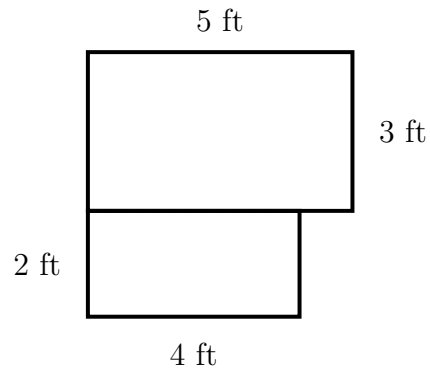
B. 54

D. 69



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- 10) An L-shaped room plan shows two rectangles. Top: 5 ft by 3 ft. Bottom: 4 ft by 2 ft. What is the total floor area?



- A. 15 sq ft                       C. 120 sq ft  
 B. 8 sq ft                         D. 23 sq ft
- 11) Let  $t$  represent the number of items left. A store has 5 boxes with 6 items in each. They sell 12 items. What is  $t$ ?
- A. 18                                 C. 30  
 B. 24                                 D. 42
- 12) Write a fraction equivalent to  $\frac{1}{2}$  with a denominator of 4 using multiplication.



1) If you have the number \_\_\_\_\_, and you round it to the nearest 10, you get 70. You also know the number is odd. Which number could it be?

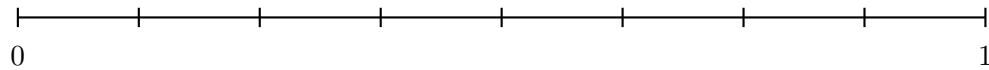
A. 65

C. 72

B. 68

D. 74

2) On a number line from 0 to 1 with 8 equal parts, where is  $\frac{6}{8}$ ?



A. At the fourth tick

C. At the sixth tick

B. At the fifth tick

D. At the seventh tick

3) You need to multiply  $4 \times 70$ . Which shows a strategy you could use?

A.  $4 + 7 + 10 = 21$

C.  $4 + 70 = 74$

B.  $(4 \times 7) \times 10 = 28 \times 10 = 280$

D.  $(4 + 7) \times 10 = 110$

4) Ben tiles a square using unit squares. He puts 5 tiles in each row and 5 tiles in each column. How many tiles does he use?

A. 10

C. 15

B. 25

D. 50

5) Find  $5 \times (7 + 4)$ .



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6) A fish tank holds 12 liters. Ava drains 5000 mL. How many liters of water remain?

A. 5 L

C. 12 L

B. 7 L

D. 17 L

7) Look at the line plot showing pencil lengths in inches:  $5$ ,  $5\frac{1}{4}$ ,  $5\frac{1}{2}$ ,  $5\frac{3}{4}$ ,  $6$ . There are 2 X's at 5 inches, 1 X at  $5\frac{1}{4}$  inches, 3 X's at  $5\frac{1}{2}$  inches, 2 X's at  $5\frac{3}{4}$  inches, and 1 X at 6 inches. How many pencils are there in total?

8) A bar graph shows books checked out from the library. One bar is 4 units tall, the other is 2 units tall. Each unit represents 5 books. How many more books does the first bar show?

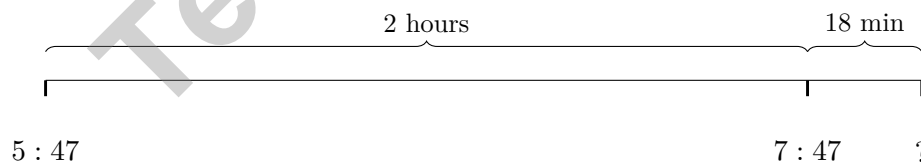
A. 2

C. 15

B. 10

D. 20

9) A farmer starts working at 5 : 47 AM. He works for 2 hours and 18 minutes. What time does he stop working?



A. 8 : 00 AM

C. 8 : 10 AM

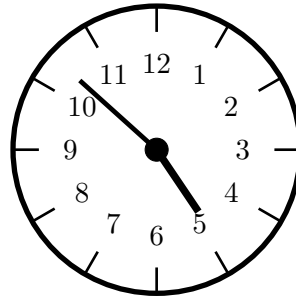
B. 8 : 05 AM

D. 8 : 15 AM





5) Look at the clock. What time does it show?



- A. 5 : 26                       C. 9 : 20  
 B. 4 : 52                       D. 9 : 52

6) Sam said  $\frac{5}{2} = 5$ . Is he correct?

- A. Yes, because the numerator is 5       D. No, the numerator must equal the denominator  
 B. Yes, because  $5 > 2$   
 C. No, it equals  $\frac{5}{1}$

7) Which repeated addition matches  $5 \times 10$ ?

- A.  $5 + 5 + 5$                        C.  $10 + 10 + 10 + 10 + 10$   
 B.  $10 + 5$                        D.  $5 + 10$



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## Practice Test Answer Keys

**How to use this section with a Grade 3 student:**

1. check the answer first
2. mark questions to try again
3. rework the problem before reading the full explanation

**A calm correction routine turns every missed item into useful practice.**

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## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- 1) **Choice B is correct.** [CC.2.4.3.A.5](#) Lily's area =  $6 \times 5 = 30$  sq units. Mia's area =  $7 \times 4 = 28$  sq units.  $30 > 28$ , so Lily's is larger.
- 2) **Choice A is correct.** [CC.2.2.3.A.2](#) We can check:  $7 \times 8 = 56$ . Sam is correct.
- 3) **Choice C is correct.** [CC.2.4.3.A.1](#) Add:  $1000 + 500 + 500 = 2000$  mL.
- 4) **The correct answer is 36 sq cm.** [CC.2.3.3.A.2](#) Since it's a square, both rows and columns equal 6. Students should show repeated addition.
- 5) **Choice D is correct.** [CC.2.3.3.A.2](#) 3 friends with 8 stickers each means 3 groups of 8. So  $3 \times 8 = 24$  stickers in all.
- 6) **Choice D is correct.** [CC.2.2.3.A.1](#) Noah, his 2 friends = 3 people total. Divide:  $18 \div 3 = 6$  crayons each.
- 7) **Choice C is correct.** [1.3.C](#) From 0 to  $\frac{4}{8}$  is a count of 4 equal units.
- 8) **Choice D is correct.** [CC.2.3.3.A.2](#)  $35 \div 7 = 5$ . The blocks are divided equally among the friends.
- 9) **Choice B is correct.** [CC.2.4.3.A.5](#)  $6 \times 9 = 54$  tiles. Larger product.
- 10) **Choice D is correct.** [CC.2.3.3.A.2](#) Top:  $5 \times 3 = 15$  sq ft. Bottom:  $4 \times 2 = 8$  sq ft. Total:  $15 + 8 = 23$  sq ft.
- 11) **Choice A is correct.** [CC.2.2.3.A.4](#) Step 1: Find total:  $5 \times 6 = 30$  items. Step 2: Subtract sold:  $30 - 12 = 18$  items left. (Choice C is step 1 only.)
- 12) **The correct answer is  $\frac{2}{4}$ .** [CC.2.3.3.A.2](#) Multiply the numerator and denominator by 2:  $\frac{1 \times 2}{2 \times 2} = \frac{2}{4}$ .
- 13) **Choice D is correct.** [CC.2.2.3.A.4](#) Each number increases by 6. These are multiples of 6:  $36 + 6 = 42$ .
- 14) **Choice C is correct.** [CC.2.3.3.A.2](#) Area = length  $\times$  width =  $5 \times 4 = 20$  square feet.
- 15) **Choice C is correct.** [CC.2.3.3.A.2](#)  $10 \times 4 = 40$  unit square tiles are needed.
- 16) **Choices A and B are correct.** [CC.2.2.3.A.3](#) A and B are correct because they show the two division facts from  $7 \times 8 = 56$ . C is false because  $72 \div 9 = 8$ , not 7. D is false because  $20 \div 5 = 4$  and  $5 \div 20$  is not a whole number; they are different. E is partially true but is a distractor because it doesn't test understanding of the inverse relationship.
- 17) **Choice D is correct.** [CC.2.1.3.B.1](#) Add to find the missing minuend:  $256 + 187 = 443$ . Check:  $443 - 187 = 256$ .
- 18) **Choice D is correct.** [CC.2.3.3.A.1](#) A quadrilateral has 4 vertices (corners), one at each place where two sides meet.
- 19) **Choice A is correct.** [1.3.B](#) The 6th fourth is  $\frac{6}{4}$ , which is  $1\frac{2}{4} = 1\frac{1}{2}$ .
- 20) **Choice C is correct.** [CC.2.3.3.A.2](#) If one part is  $\frac{1}{4}$  of the pizza, the pizza is divided into 4 equal parts.
- 21) **Choice C is correct.** [CC.2.4.3.A.2](#) From 4 : 05 to 5 : 05 is 1 hour. From 5 : 05 to 5 : 28 is 23 minutes. Total: 1 hour 23 minutes.
- 22) **Choice A is correct.** [CC.2.3.3.A.2](#) One of eight equal spaces is  $\frac{1}{8}$ .
- 23) **Choice B is correct.** [CC.2.2.3.A.4](#)  $\frac{4}{8}$  and  $\frac{1}{2}$  both equal half of a whole.
- 24) **The correct answer is 600.** [CC.2.4.3.A.2](#) The tens digit is 1. Since  $1 < 5$ , round down: 614 rounds to 600.
- 25) **Choice C is correct.** [CC.2.3.3.A.2](#) A fraction where numerator = denominator always equals 1.  $\frac{6}{6} = 1$ .
- 26) **Choice B is correct.** [CC.2.3.3.A.2](#) Same numerator: fifths are smaller pieces than fourths. Two fifths is less than two fourths.
- 27) **Choice C is correct.** [CC.2.2.3.A.2](#)  $8 \times 7 = 56$ . You can check:  $56 \div 7 = 8$ .
- 28) **Choice C is correct.** [CC.2.3.3.A.2](#)  $\frac{4}{6} = \frac{2}{3}$  because both represent two-thirds of the poster.
- 29) **Choice D is correct.** [CC.2.1.3.B.1](#) 7 packs of 10 pencils =  $7 \times 10 = 70$  pencils.
- 30) **Choice C is correct.** [CC.2.3.3.A.2](#) Picture C shows a rectangle divided into 3 equal parts with 1 part shaded, which is  $\frac{1}{3}$ .

### Practice Test 2 Answers and Explanations



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## Hi, Brave Trail-Walker!

◇ You walked all 9 miles of the practice trail. Smooth paths, steep climbs, narrow passes. Every step taught you something. ◇

★ **Trail guides know:** the most important thing is to keep moving. Slow steps still get you there. You have a steady stride now. ★

### Trail Survey

- **Route Knowledge:** You know lots of problem types.
- **Steady Pace:** You don't rush. You don't stop.
- **Pack Loaded:** You have all the math tools you need.
- **Confidence:** You trust your training.

**Guide's tip:** on test day, stay on the trail you've walked before. Use the strategies you've practiced. Trust the route. The summit is one steady walk away!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Trail Guide

# STRONG TODAY. SUCCESS TOMORROW.

Give your child the tools they need to excel in **Grade 3 Math!** This book includes **9 complete practice tests** that follow grade-level standards and help students build confidence, sharpen skills, and achieve success.

**9**  
**COMPLETE PRACTICE TESTS**

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- ✓ Engaging, Varied, and Effective

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### Strengthen Skills

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



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



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Aligned to Standards



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