

3

Pennsylvania

PSSA

GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned
Practice for Stronger
Math Skills and
Test Readiness



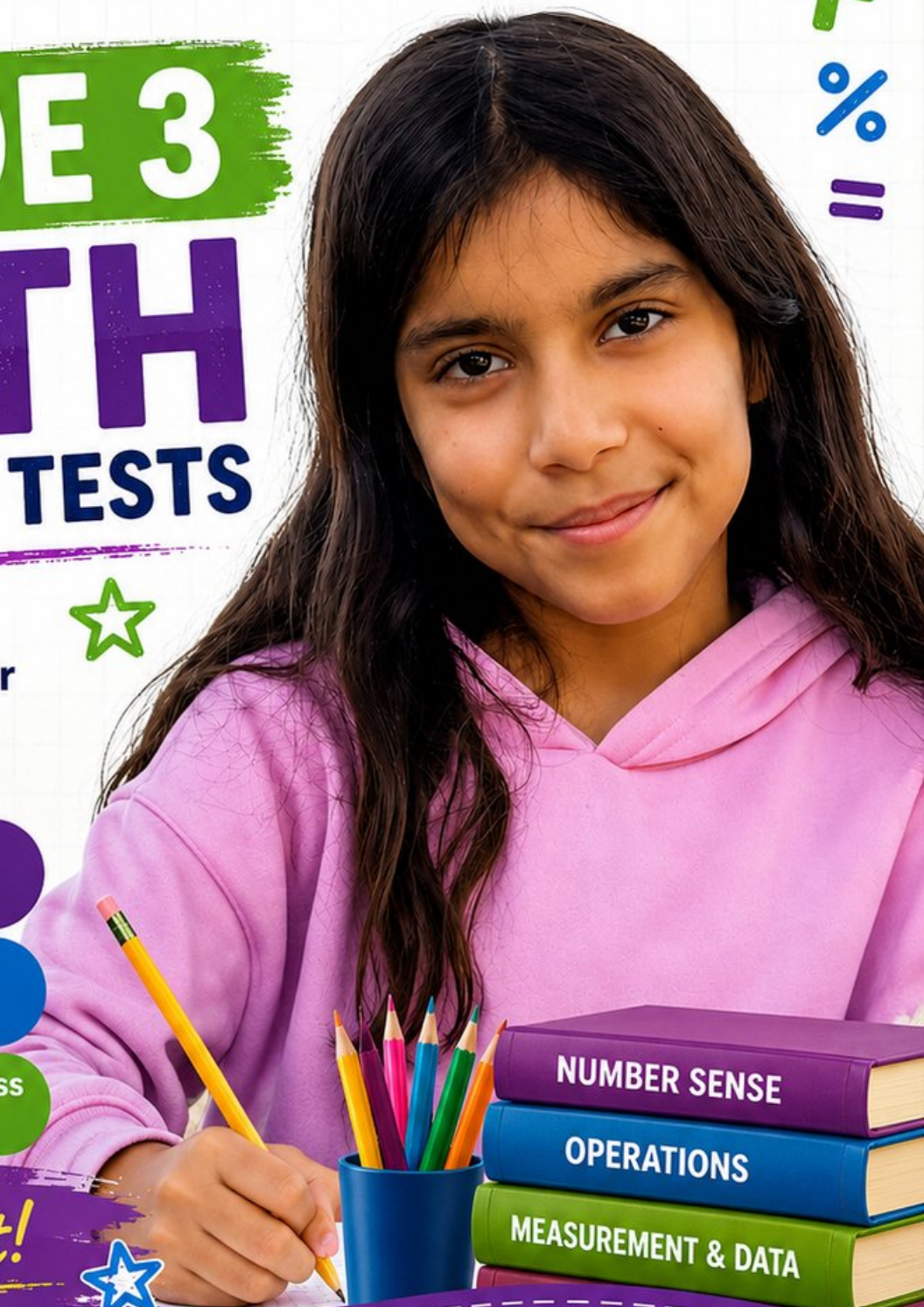
Build Confidence
with Targeted Practice



Strengthen Skills
in Key Math Concepts



Improve Test Readiness
with Realistic Practice

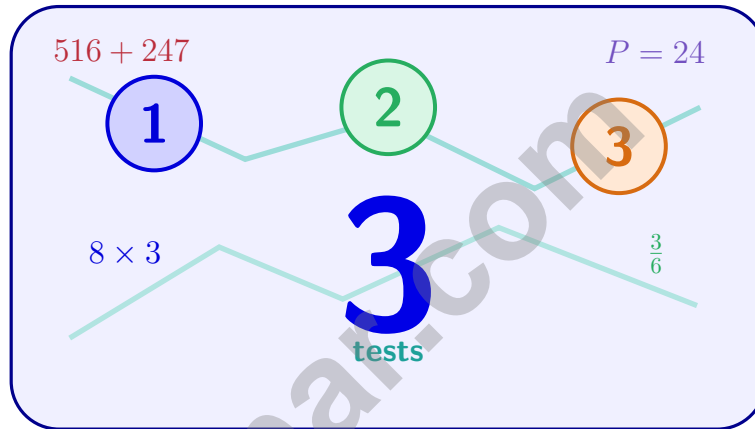


Be Ready.
Do Your Best!



3 Pennsylvania PSSA Grade 3 Math Practice Tests

Standards-Aligned Practice for Stronger Math Skills and Test Readiness



Three 30-question trail tests packed with Grade 3 review, Pennsylvania PSSA strategy tips, answer keys, and step-by-step explanations that turn every miss into the next move.

Jay Daie and Reza Nazari



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Welcome to the Pennsylvania Math Trail

Three tests, one trail, and a stronger Grade 3 thinker at the end



To the Grade 3 Trail Scout

This book is your practice trail for the Pennsylvania PSSA. You will multiply and divide, read graphs, work with fractions, measure time, find area, and explain your thinking – one trail marker at a time.

Some problems will feel quick, like a clear stretch of wide open trail. Some will ask you to slow down, draw, count, or try again. That slow part is where strong math grows. Every page gives your brain another chance to spot, choose, and build.

Spot

Read carefully and find what the problem is really asking.

Sketch

Use numbers, arrays, number lines, or labels to make your thinking visible.

Signal

Check that your answer makes sense before you wave the next question on.

Trail promise: I will read like a tracker, sketch like a planner, and check like a careful scout. I do not have to be perfect to keep moving forward.

How to Use This Book

A four-step trail plan that turns practice into progress

Step 1: Pack Your Pack

Read the Quick Review first.
Wake up the Grade 3 ideas you will need before you set foot on the trail.

Step 2: Hit the Trail

Take one full test.
Thirty questions. Pencil sharp, work shown, calm pace – one marker at a time.

Step 3: Campfire Check

Check answers honestly.
Circle missed questions. Star any problem that felt confusing – those are tomorrow’s clues.

Step 4: Track Back

Fix a few mistakes.
Read the explanation, rework the problem, and carry that lesson up the next stretch of trail.

A Three-Week Trail Plan

Week 1	Hike Test 1. Map what feels strong and what needs a second look.
Week 2	Hike Test 2. Sharpen the habits: read slow, sketch the model, label every number.
Week 3	Hike Test 3. Bring everything – facts, models, checks, and calm focus.

Best trail habit: Do not only ask, “What did I score?” Ask, “What did I learn how to do better?”



Test Overview

What waits on the trail and what each practice test builds

Each practice test has 30 questions. Together they walk you through the kind of math thinking the Pennsylvania PSSA asks Grade 3 students to use: read carefully, choose a strategy, show work, and check whether an answer makes sense.

Selected-Response Questions

Pick the best answer from the choices. Strong scouts estimate first, cross out answers that cannot be right, and reread the question before circling.

Open-Ended Questions

Write the answer and show the thinking. A clear response uses neat numbers, helpful labels, and a short model or explanation.

Grade 3 Ideas You Will Meet on the Trail

- multiplication, division, arrays, equal groups, and fact fluency
- rounding, adding, subtracting, and multiplying by multiples of 10
- fractions, number lines, equivalent fractions, and comparing fractions
- time, mass, liquid volume, picture graphs, bar graphs, and line plots
- area, perimeter, unit squares, rectangles, and shapes
- two-step word problems and explaining a solution path

What strong PSSA work looks like: the scout reads the whole problem, picks a sensible strategy, writes numbers neatly, labels the answer, and checks that the answer truly fits the question.



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Table of Contents

★ Practice Test 1	_____	16
★ Practice Test 2	_____	28
★ Practice Test 3	_____	41
Practice Test Answer Keys	_____	53
Practice Test Answers and Explanations	_____	56

1) Which equation is true?

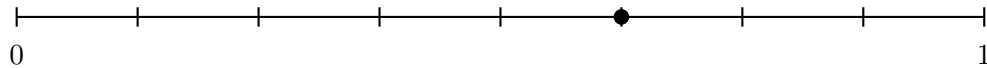
A. $3 \times 6 = 19$

C. $8 \times 5 = 42$

B. $9 \times 3 = 28$

D. $5 \times 6 = 30$

2) On a number line from 0 to 1 with 8 equal parts, what fraction is marked by the dot?



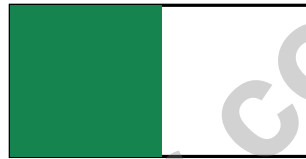
A. $\frac{3}{8}$

C. $\frac{5}{8}$

B. $\frac{4}{8}$

D. $\frac{6}{8}$

3) A rectangle is divided into 2 equal parts. One part is shaded.



What unit fraction is shaded?

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

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

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

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

4) Look at even numbers: 2, 4, 6, 8, 10, 12, 14.

What is the rule for this pattern?

 A. Add 1 each time

 C. Add 3 each time

 B. Skip count by 4

 D. Add 2 each time

5) Lily has 48 beads to make bracelets. Each bracelet uses 8 beads. How many bracelets can she make?

A. 6

C. 7

B. 56

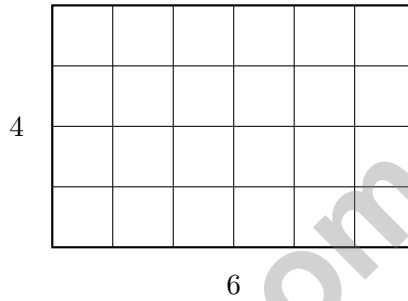
D. 40



- 6) □□ □□ □□
□□ □□ □□

Which repeated addition matches this array?

- A. $3 + 3 = 6$
 C. $3 + 3 + 3 = 9$
 B. $2 + 2 + 2 = 6$
 D. $4 + 4 + 4 = 12$



- 7) The rectangle is tiled with unit squares. How many unit squares are there?

- A. 10
 C. 24
 B. 20
 D. 48

- 8) A line plot displays plant heights in inches: $8, 8\frac{1}{2}, 9, 9\frac{1}{2}, 10$. The data shows 4 measurements at 8 inches, 2 at $8\frac{1}{2}$ inches, 0 at 9 inches, 1 at $9\frac{1}{2}$ inches, and 3 at 10 inches. How many plants are at least 9 inches tall?



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- 9) A rectangle's length is 12 cm. Its width is 3 cm. What is the perimeter?
- A. 15 cm C. 30 cm
 B. 36 cm D. 72 cm
- 10) Which property is NOT true for all rectangles?
- A. All sides are equal in length C. They have 4 sides
 B. They have 4 right angles D. Opposite sides are equal in length
- 11) Noah buys three items at the store. Tomatoes weigh 1 kg, bread weighs 600 g, and cheese weighs 400 g. What is the total mass in grams?
- A. 1000 g C. 2000 g
 B. 1600 g D. 2600 g
- 12) A bar graph shows candies. Each bar height represents units. The scale is 5 candies per unit. Red bar is 2 units, blue is 3 units, green is 4 units. How many candies in total?
- A. 45 C. 35
 B. 40 D. 50
- 13) Which division sentence relates to $4 \times 9 = 36$?
- A. $36 \div 4 = 9$ C. $36 + 4 = 40$
 B. $36 \div 9 = 5$ D. $36 - 9 = 27$
- 14) Which TWO statements are true about a rectangular floor that measures 8 feet by 5 feet?
- A. The area is 13 square feet
 B. Multiplying length and width gives the area
 C. The area is 40 square feet
 D. The area is found by adding all sides
 E. $8 \times 5 = 45$

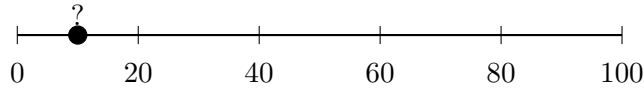


1) Which comparison is true?

- A. $\frac{3}{5} > \frac{3}{4}$
- B. $\frac{3}{5} < \frac{3}{4}$

- C. $\frac{3}{4} < \frac{3}{5}$
- D. $\frac{3}{5} = \frac{3}{4}$

2)



The point on the number line is closer to which number when rounded to the nearest 10?

- A. 0
- B. 30

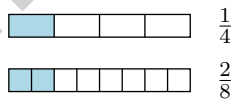
- C. 20
- D. 10

3) A composite shape is broken into rectangles by dashed lines. Areas are 25 sq units and 14 sq units. What is the total?

- A. 11 sq units
- B. 50 sq units

- C. 39 sq units
- D. 350 sq units

4) Look at the fraction bars. Which bars show equivalent fractions?



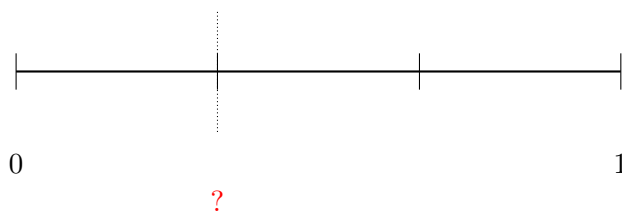
- A. Yes, they are equivalent
- B. No, they are not equivalent

- C. The bars cannot be compared
- D. They show a ratio, not a fraction

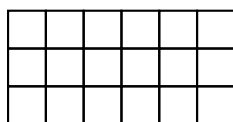


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- 5) A number line from 0 to 1 is divided into 3 equal parts. Where is $\frac{1}{3}$ located?



- A. At the first tick C. At zero
 B. At the second tick D. At one
- 6) Noah is counting unit squares on a tiled wall pattern. The wall displays this arrangement:



What is the total area covered?

- A. 9 sq units C. 18 sq units
 B. 15 sq units D. 24 sq units
- 7) When a whole is divided into equal parts, what does the denominator (bottom number) tell us?
- A. How many equal parts the whole is divided into C. The color of the shape
 B. How many parts are shaded D. How big the whole is
- 8) Sam has fact cards for $3 \times 6 = 18$. Which division fact is related?
- A. $18 \div 3 = 6$ C. $6 \div 3 = 2$
 B. $18 \div 2 = 9$ D. $18 + 3 = 21$



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 builds stronger math habits.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice D is correct.** **(CC.2.2.3.A.2)** $5 \times 6 = 30$ is correct. The other answers are: $3 \times 6 = 18$, $8 \times 5 = 40$, and $9 \times 3 = 27$.
- Choice C is correct.** **(1.3.C)** The dot is at the 5th mark out of 8 equal divisions, so the fraction is $\frac{5}{8}$.
- Choice B is correct.** **(CC.2.3.3.A.2)** The rectangle is divided into 2 equal parts with 1 shaded, so the fraction is $\frac{1}{2}$ (one-half).
- Choice D is correct.** **(CC.2.2.3.A.4)** Even numbers increase by 2: 2, 4, 6, 8, etc.
- Choice A is correct.** **(CC.2.2.3.A.1)** Divide: $48 \div 8 = 6$ bracelets.
- Choice D is correct.** **(CC.2.3.3.A.2)** The array shows 3 columns with 4 squares in each column. This means $4 + 4 + 4 = 12$ or $3 \times 4 = 12$.
- Choice C is correct.** **(CC.2.4.3.A.5)** Count rows and columns: $6 \times 4 = 24$ square units. Bridge from visual tiling to multiplication.
- The correct answer is 4 plants.** **(CC.2.4.3.A.4)** At least 9 inches means $9, 9\frac{1}{2}$, and 10 inches: $0 + 1 + 3 = 4$ plants.
- Choice C is correct.** **(CC.2.4.3.A.6)** $P = 2(12) + 2(3) = 24 + 6 = 30$ cm.
- Choice A is correct.** **(CC.2.3.3.A.1)** Not all rectangles have equal sides. Only squares have all 4 sides equal. All rectangles do have 4 sides, 4 right angles, and opposite sides equal.
- Choice C is correct.** **(CC.2.4.3.A.1)** $1 \text{ kg} = 1000 \text{ g}$. Add: $1000 + 600 + 400 = 2000 \text{ g}$.
- Choice A is correct.** **(CC.2.4.3.A.4)** Red: $2 \times 5 = 10$. Blue: $3 \times 5 = 15$. Green: $4 \times 5 = 20$. Total: $10 + 15 + 20 = 45$.
- Choice A is correct.** **(CC.2.2.3.A.3)** $36 \div 4 = 9$ is related to $4 \times 9 = 36$ through the inverse relationship.
- Choices B and C are correct.** **(CC.2.3.3.A.2)** Area of a rectangle = length \times width = $8 \times 5 = 40$ square feet. Choice E is false because 8×5 equals 40, not 45. Perimeter is found by adding all four sides.
- Choice D is correct.** **(CC.2.4.3.A.6)** For a square: $8 \times 8 = 64$ square inches.
- Choice A is correct.** **(CC.2.3.3.A.2)** One shaded part out of three equal parts is $\frac{1}{3}$.
- Choice C is correct.** **(CC.2.4.3.A.2)** From 4 : 30 to 5 : 30 is 1 hour (60 minutes). From 5 : 30 to 5 : 42 is 12 more minutes. Total: $60 + 12 = 72$ minutes.
- Choice B is correct.** **(CC.2.3.3.A.2)** $18 \text{ sixths} = 18 \div 6 = 3$ wholes. Six sixths make one whole.
- Choice C is correct.** **(CC.2.1.3.B.1)** Multiply $8 \times 6 = 48$, then multiply by 10: $8 \times 60 = 480$. The chart shows 4 hundreds, 8 tens, and 0 ones.
- Choice D is correct.** **(CC.2.1.3.B.1)** By the associative property, $(3 \times 2) \times 4 = 3 \times (2 \times 4) = 24$. Both groupings give the same product.
- Choice C is correct.** **(CC.2.3.3.A.2)** $8 \times 6 = 48$ unit squares.
- Choice D is correct.** **(CC.2.3.3.A.2)** Both A ($\frac{1}{2}$) and D ($\frac{2}{4}$) represent one-half of their rectangles.
- Choice D is correct.** **(CC.2.2.3.A.2)** From the fact family, $7 \times 6 = 42$.
- The correct answer is 525.** **(CC.2.1.3.B.1)** Subtract to find the missing addend: $781 - 256 = 525$. Check: $525 + 256 = 781$.
- Choice C is correct.** **(CC.2.3.3.A.2)** Multiply numerator and denominator by 2: $\frac{2 \times 2}{2 \times 2} = \frac{4}{4}$.
- Choice B is correct.** **(CC.2.4.3.A.5)** The expanded distributive equation adds the two smaller rectangle areas: $(10 \times 3) + (10 \times 7) = 30 + 70 = 100$.
- Choice A is correct.** **(CC.2.4.3.A.2)** The tens digit is 2. Since $2 < 5$, round down: 325 rounds to 300.
- Choice C is correct.** **(CC.2.3.3.A.2)** If each unit square is 1 cm by 1 cm, then 7 unit squares of 1 cm fit along a 7 cm side.
- The correct answer is 9.** **(1.3.B)** From 0 to 3, there are 3 whole units. Each unit has 3 thirds, so $3 \times 3 = 9$ thirds total, or $\frac{9}{3} = 3$.
- Choice A is correct.** **(CC.2.3.3.A.2)** $5 \times 5 = 25$ unit square tiles.



From a Friend Who Believes in You

Hi, Friend!

◇ I just want to say something important: I am proud of you. You did 3 full practice tests. That takes time, hard work, and heart. ◇

★ **Friendly truth:** a test is just one part of your math journey. You are SO much more than a score. The work you did is the real win! ★

What I Want You to Know

- **You are smart.** Every test you finished proves it.
- **You are brave.** You tried hard problems.
- **You are growing.** Mistakes taught you new things.
- **You are ready.** The skills are inside you.

One more thing: on test day, take a deep breath. Smile. Remember that someone (me!) believes in you. You can do this!

If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Math Friend

3 GRADE 3 MATH PRACTICE TESTS

Practice Today. *Succeed* Tomorrow!



Give your child the tools to build strong math skills and test confidence!

This book includes 3 full-length Grade 3 Math practice tests that mirror real test formats and cover all key math standards. With a wide range of question types and real-world problems, students will gain the practice and confidence they need to do their best!

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