

5

Pennsylvania

PSSA

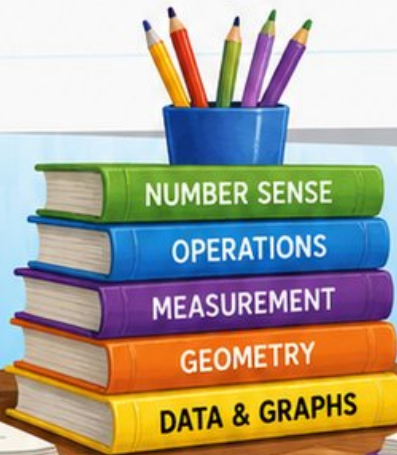
GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Practice with
Review, Answer Keys, and Explanations

$24 \div 3 = 8$



5 FULL-LENGTH
PRACTICE TESTS



STANDARDS-
ALIGNED
PRACTICE



DETAILED
ANSWER KEYS



CLEAR
EXPLANATIONS
TO HELP YOU SUCCEED

5 Pennsylvania PSSA Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Five focused 30-question checkpoints for Grade 3 math: facts, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome to the Five Checkpoint Quest

Five tests, five fresh starts, and one stronger Grade 3 thinker



Read. Model. Solve. Check. Grow.

To the Grade 3 Math Explorer

This book gives you five practice checkpoints for the Pennsylvania PSSA. Each checkpoint is a full 30-question test, so you can practice stamina, accuracy, and the habit of showing what you know.

Pennsylvania has valley roads, historic cities, forest trails, and bridges that connect one idea to the next. Strong math uses the same kind of careful planning: look at the path, choose a tool, and check your work before moving ahead.

Notice

Circle key words, units, and numbers before you start.

Build

Use arrays, number lines, equations, tables, or sketches.

Verify

Ask, "Does this answer fit the question?"

Five-checkpoint promise: I will try each test with patience, mark my mistakes honestly, and use every correction to make the next checkpoint stronger.

How to Use This Book

A five-step routine for steady Grade 3 growth

Use one checkpoint at a time. A good pace is one test, one careful review, and one short skill tune-up before the next test.

1. **Preview the tools.** Skim the reference page and remember where multiplication, fractions, measurement, and shapes appear.
2. **Take one full test.** Work neatly. If a problem feels stuck, mark it and keep moving.
3. **Check the answer key.** Notice the question type: multiple choice, select all, or open-ended.
4. **Study explanations.** Pick two missed questions and redo them without looking.
5. **Choose the next focus.** Write one habit to carry into the next checkpoint.

Best review habit: Do not just ask, “What was the answer?” Ask, “What clue did I miss, and what tool should I try next time?”



What Is Inside?

Five complete practice tests with review support

Part	What You Do	Why It Helps
Practice Tests 1–5	Solve five different 30-question tests.	Build stamina and see many Grade 3 skills mixed together.
Answer Keys	Check each answer in compact boxes.	Find mistakes quickly without losing your place.
Explanations	Read the reason behind each answer.	Turn missed items into a clear next step.
Standards Reference	See how Pennsylvania Grade 3 standards connect to practice.	Understand the skills behind the questions.

Each test has 26 multiple-choice questions, 1 select-all question, and 3 open-ended questions. That mix gives students practice with quick choices, careful reasoning, and short written answers.



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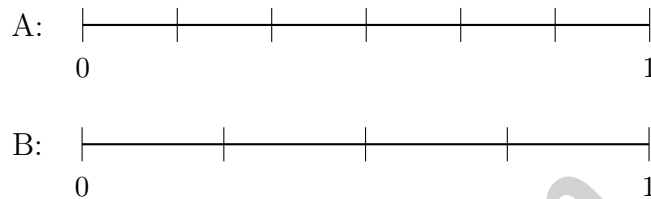
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1) Which situation can be represented by $12 \div 3$?

- A. 12 multiply by 3
- B. 3 subtract from 12
- C. How many groups of 3 make 12
- D. 12 items shared equally among 3 groups

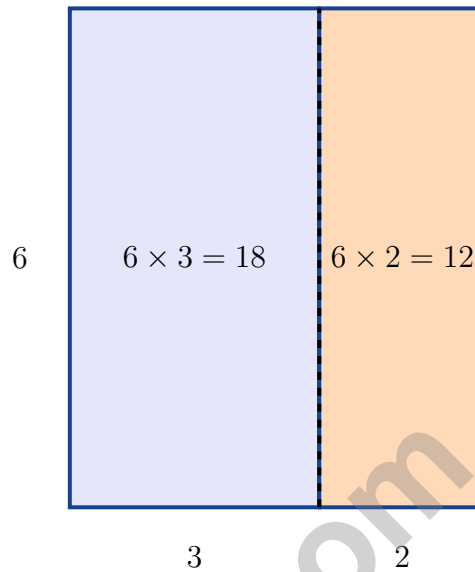
2) Which number line correctly shows an interval from 0 to 1 divided into 6 equal parts?



- A. Option A
- B. Option B
- C. Neither is correct
- D. Both are correct



3) Look at this area model for $6 \times (3 + 2)$.



This shows that $6 \times (3 + 2)$ equals:

- A. $18 + 2 = 20$ C. $6 + 3 + 2 = 11$
 B. 6×4 D. $18 + 12 = 30$

4) Look at this pattern: 10, 20, 30, 40.

What is the next number?

- A. 45 C. 55
 B. 60 D. 50

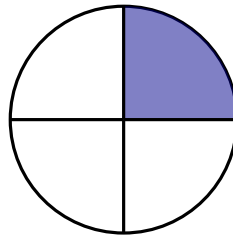
5) What is $40 \div 5$?

- A. 7 C. 9
 B. 10 D. 8



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- 1) Look at the circle. It is divided into 4 equal parts. One part is shaded.



What fraction is shaded?

- A. $\frac{1}{2}$ C. $\frac{1}{3}$
 B. $\frac{1}{4}$ D. $\frac{4}{4}$
- 2) The perimeter of a rectangle is 44 cm. If the width is 7 cm, what is the length?



- 3) On a number line from 0 to 1 divided into 4 equal parts, what fraction is at the second tick mark from 0?

- A. $\frac{1}{4}$ C. $\frac{3}{4}$
 B. $\frac{2}{4}$ D. $\frac{4}{4}$
- 4) A rectangle is covered with 4 rows of 5 unit squares. What is the area? You can count by rows: $5 + 5 + 5 + 5$.

- A. 5 sq units C. 20 sq units
 B. 9 sq units D. 25 sq units



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5) Noah has $\frac{2}{6}$ of a chocolate bar. What is an equivalent fraction that shows the same amount?

- A. $\frac{1}{3}$
 B. $\frac{1}{2}$

- C. $\frac{2}{3}$
 D. $\frac{3}{6}$

6) A rectangle has opposite sides that are equal. How many pairs of equal sides does a rectangle have?

- A. 1 pair
 B. 2 pairs

- C. 3 pairs
 D. 4 pairs

7) Which fraction is equivalent to $\frac{1}{2}$?

- A. $\frac{1}{4}$
 B. $\frac{2}{4}$

- C. $\frac{2}{3}$
 D. $\frac{1}{3}$

8) Lily sees a number line from 0 to 1 with 8 equal parts. She wants to find $\frac{2}{8}$. How many tick marks does she count from 0?

- A. 8 ticks
 B. 4 ticks

- C. 2 ticks
 D. 1 tick

9) Which problem equals 350? Check each one.

- A. $5 \times 70 = (5 \times 7) \times 10 = 35 \times 10 = 350$ ✓
 B. $7 \times 40 = (7 \times 4) \times 10 = 28 \times 10 = 280$
- C. $5 \times 50 = (5 \times 5) \times 10 = 25 \times 10 = 250$
 D. $7 \times 70 = (7 \times 7) \times 10 = 49 \times 10 = 490$



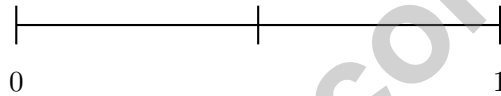
1) A factory packages 90 toys equally into 9 crates. They ship away 4 crates. How many toys remain?

- A. 45 C. 55
 B. 60 D. 50

2) A pie is cut into 6 equal slices. Ava eats one slice. What fraction of the pie does Ava eat?

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

3) On a number line from 0 to 1 divided into 2 equal parts, which tick mark shows $\frac{1}{2}$?



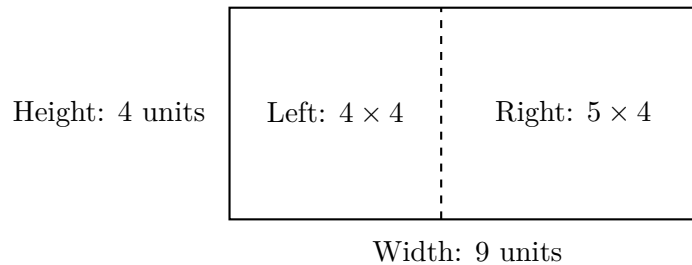
- A. The tick at 0 C. The tick at 1
 B. The middle tick D. The whole line from 0 to 1

4) What is $54 \div 6$?

- A. 8 C. 10
 B. 11 D. 9



5) This rectangle is split by a vertical line:



Which is the correct distributive property equation?

- A. $4 \times (4 + 5) = (4 \times 4) + (4 \times 5) = 16 + 20 = 36$
 B. $9 + 4 = 13$
- C. $(4 \times 4) + (5 \times 4) = 16 + 20 = 36$
 D. $(4 + 5) \times 4 = 36$
- 6) Aiden calculated $2 \times 70 = 1400$. What is the CORRECT answer and what error did Aiden make?
- A. The correct answer is 140; Aiden added two zeros instead of one.
 B. The correct answer is 140; Aiden multiplied wrong.
- C. The correct answer is 9; Aiden subtracted instead of multiplying.
 D. The correct answer is 27; Aiden forgot the zero.
- 7) Which fraction is NOT equivalent to $\frac{2}{6}$?
- A. $\frac{1}{3}$
 B. $\frac{2}{8}$
- C. $\frac{1}{2}$
 D. $\frac{2}{3}$
- 8) A rectangular piece of fabric is 10 feet long and 2 feet wide. What is the total area of the fabric?
- A. 12 sq ft
 B. 20 sq ft
- C. 24 sq ft
 D. 5 sq ft



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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 D is correct.** **(3.OA.A.2)** $12 \div 3$ asks “how many in each group when 12 items are shared equally among 3 groups?” Each group gets 4 items.
- 2) **Choice A is correct.** **(3.NF.A.2a)** Option A has 6 equal parts (7 ticks including 0 and 1). Option B has only 4 parts.
- 3) **Choice D is correct.** **(3.OA.B.5)** The area model shows two rectangles: $6 \times 3 = 18$ and $6 \times 2 = 12$. Adding them: $18 + 12 = 30 = 6 \times 5$.
- 4) **Choice D is correct.** **(3.OA.D.9)** Add 10 each time: $40 + 10 = 50$. This is skip counting by 10.
- 5) **Choice D is correct.** **(3.OA.C.7)** $40 \div 5 = 8$ because $8 \times 5 = 40$.
- 6) **Choice B is correct.** **(3.MD.A.2)** 2 L = 2000 mL is the largest volume.
- 7) **Choice A is correct.** **(3.NF.A.3b)** Both bars show the same shaded length. $\frac{2}{3} = \frac{4}{6}$ because $\frac{2 \times 2}{3 \times 2} = \frac{4}{6}$.
- 8) **Choice D is correct.** **(3.G.A.2)** A diagonal line divides a square into 2 equal triangular parts, each $\frac{1}{2}$.
- 9) **The correct answer is 60.** **(3.NBT.A.3)** 6 boxes of 10 crayons = $6 \times 10 = 60$ crayons.
- 10) **Choice D is correct.** **(3.OA.A.1)** 8 packs with 6 cards each means 8 groups of 6. So $8 \times 6 = 48$ cards.
- 11) **Choice D is correct.** **(3.OA.B.6)** $40 \div 5 = \square$ means $\square \times 5 = 40$. Since $8 \times 5 = 40$, the answer is 8.
- 12) **Choice A is correct.** **(3.MD.C.5)** Shape X has an area of 15 square units, which is larger than Shape Y’s 9 square units. More space inside means greater area.
- 13) **Choice C is correct.** **(3.G.A.1)** By definition, a parallelogram has two pairs of opposite sides that are parallel. Not all parallelograms have right angles or equal sides.
- 14) **Choice B is correct.** **(3.MD.B.4)** Shorter than $6\frac{3}{4}$ inches includes $6, 6\frac{1}{4}$, and $6\frac{1}{2}$ inches: that is $1 + 2 + 3 = 6$ pencils.
- 15) **Choices A and C are correct.** **(3.OA.D.8)** Multiply tables by chairs per table: $9 \times 4 = 36$. Then add: $36 + 8 = 44$. Choices A and C both correctly compute $(9 \times 4) + 8 = 44$. Choice B adds all three numbers (incorrect order). Choice D applies order of operations wrong. Choice E adds first then multiplies (wrong method).
- 16) **Choice B is correct.** **(3.MD.C.7d)** Add all three parts: $10 + 6 + 6 = 22$ square units.
- 17) **The correct answer is 18 sq cm.** **(3.MD.C.7)** Area = $9 \times 2 = 18$ square centimeters. You can multiply the side lengths or imagine 9 rows of 2 unit squares.
- 18) **Choice A is correct.** **(3.NF.A.3d)** Three thirds is one whole. Three eighths is less than one whole. So $\frac{3}{3} > \frac{3}{8}$.
- 19) **Choice C is correct.** **(3.NF.A.3a)** $\frac{3}{4} = \frac{6}{8}$ because both represent three-fourths of their circles.
- 20) **The correct answer is $\frac{1}{6}$.** **(3.NF.A.1)** One of 6 equal parts is $\frac{1}{6}$.
- 21) **Choice A is correct.** **(3.MD.C.5a)** A 2×2 square uses 4 unit squares and has equal side lengths. Choices B and C also use 4 unit squares but are not squares with equal side lengths. Choice D uses 6 unit squares.
- 22) **Choice D is correct.** **(3.OA.A.4)** Multiply: $8 \times 4 = 32$ chairs.
- 23) **Choice C is correct.** **(3.NF.A.3)** $\frac{3}{4}$ and $\frac{6}{8}$ both equal three-fourths of a whole.
- 24) **Choice D is correct.** **(3.MD.C.7b)** Area = length \times width = $6 \times 5 = 30$ square yards.
- 25) **Choice B is correct.** **(3.NF.A.2)** Reading left to right on the number line: first tick ($\frac{1}{6}$), third tick ($\frac{3}{6}$), fifth tick ($\frac{5}{6}$). Least to greatest.
- 26) **Choice A is correct.** **(3.MD.C.5b)** $10 \times 2 = 20$ square units.
- 27) **Choice C is correct.** **(3.NF.A.3c)** $\frac{4}{1} = 4$. Any number over 1 equals that number.
- 28) **Choice C is correct.** **(3.MD.A.1)** The minute hand points to 48 (just before 10), and the hour hand is nearly at 2, meaning the hour is 1. The time is 1 : 48.
- 29) **Choice A is correct.** **(3.MD.B.3)** Count the symbols in the picture graph and multiply each count by the scale.
- 30) **Choice A is correct.** **(3.MD.C.7c)** The distributive property is shown as $8 \times (7 + 5) = (8 \times 7) + (8 \times 5) = 56 + 40 = 96$.

Practice Test 2 Answers and Explanations



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Hi, Math Champion!

◇ You trained hard! 5 full practice tests is real practice. Your math game is way better now than when you started. ◇

★ **Coach's truth:** kids who practice get better. You practiced. You got better. That's how it works!

★

Your Game Stats

- **Energy:** HIGH! You can finish a long test.
- **Smart Plays:** You know lots of strategies.
- **Calm Head:** You stay cool with hard problems.
- **Game-Day Ready:** You feel strong and prepared.

Coach's tip: the night before the test, get good sleep. Eat a good breakfast. Bring a sharp pencil. Trust your training!

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

Jay Daie

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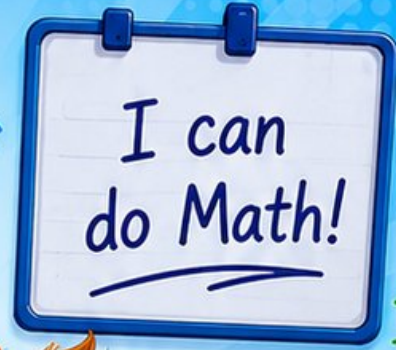
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$$\begin{array}{r} 7 \times 8 \\ = 56 \end{array}$$

$$\begin{array}{r} 36 \\ \div 4 = 9 \end{array}$$

$$\begin{array}{r} 452 \\ - 178 \\ = 274 \end{array}$$



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