

8

New York NYSTP

GRADE 3

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



8 Full-Length
Practice Tests



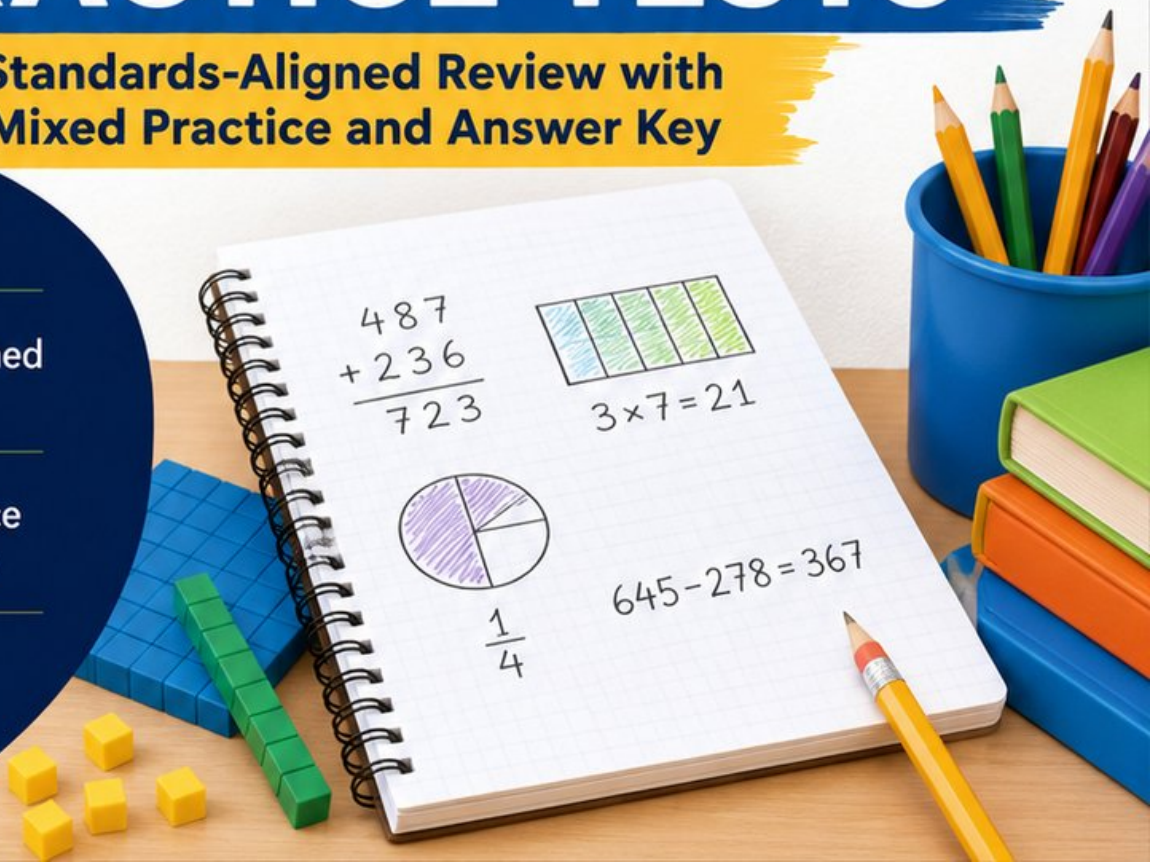
Standards-Aligned
Questions



Build Confidence
and Math Skills



Answer Key
Included



8 New York NYSTP Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



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

Jay Daie and Reza Nazari



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New York, Your Eight-Test Math Path Begins

Eight focused rounds, one stronger Grade 3 problem solver

This book gives you eight full chances to practice like a careful test taker for the New York NYSTP. Each test is a new route through numbers, shapes, data, measurement, and word problems. Work slowly enough to notice what the question asks, and proudly enough to show your thinking.

New York has city grids, canal paths, lake shores, Adirondack trails, and busy classroom questions, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and choose an efficient path through mixed problems.

Your New York Math Promise

I will read the whole question, choose a smart strategy, write clear work, and check whether my answer makes sense.

Eight rounds. Thirty questions each. One careful step at a time.

How to Use This Book

A simple eight-round routine for confident review

Use this New York book as a practice plan, not a race. Finish one test, review it, fix a few problems, then carry one better habit into the next test.

1. **Preview the reference page.** Notice units, time, and measurement facts before you begin.
2. **Take one full test.** Circle anything that feels tricky so you can return to it.
3. **Check the answer key.** Mark correct answers and questions to try again.
4. **Read explanations.** Study missed items and lucky guesses first.
5. **Redo three problems.** Write fresh work without copying the explanation.
6. **Name one habit.** Pick a focus such as labels, facts, fractions, or neat work.
7. **Try the next test.** Bring that habit forward.
8. **Finish with a final check.** Look for growth across all eight tests.

Best review habit: In New York, strong practice means slowing down enough to see the clue. When an answer is wrong, ask, “What step would I change next time?”



What Is Inside the Eight Tests?

Mixed Grade 3 math practice for the NYSTP

Each practice test has 30 questions. You will see multiple-choice questions, select-all questions, and open-ended questions with workspace. The mix helps students practice both choosing an answer and explaining a short mathematical result.

Part	What to Expect
Eight full tests	30 mixed Grade 3 questions in each round
Math topics	multiplication, division, place value, fractions, time, measurement, data, area, perimeter, and shapes
Answer keys	compact answer boxes for quick checking
Explanations	short reasoning for every item so mistakes become useful review
Progress pages	places to record scores, habits, and next-step goals

New York focus: The practice path starts with city grids, canal paths, lake shores, Adirondack trails, and busy classroom questions. Strong math uses the same idea: know the path, follow the clues, and check the final answer.



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& answers

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1) Mia makes 28 cookies and puts 4 cookies on each plate. How many plates does she use?

A. 7

C. 32

B. 8

D. 24

2) Priya has 8 packs of trading cards. Each pack has 6 cards. How many cards does she have in all?

A. 42 cards

C. 56 cards

B. 14 cards

D. 48 cards

3) $\frac{2}{3} = \frac{?}{6}$. What is the missing numerator?

A. 3

C. 5

B. 4

D. 6

4) Lily starts playing at 2 : 18 PM. She plays for 44 minutes. What time does Lily stop playing?

A. 3 : 00 PM

C. 3 : 12 PM

B. 3 : 02 PM

D. 2 : 58 PM



5) 7 units

The rectangle has 7 rows of 3 unit squares. Using repeated addition, find the area:

$$3 + 3 + 3 + 3 + 3 + 3 + 3 = ?$$

A. 10 sq units

C. 14 sq units

B. 21 sq units

D. 28 sq units

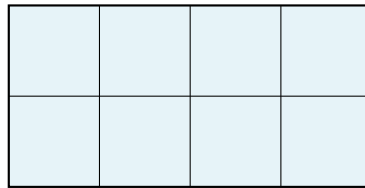


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6) How many sides does a square have?



7) How many unit squares cover this rectangle with no gaps or overlaps?



- A. 4 unit squares
- B. 6 unit squares
- C. 8 unit squares
- D. 10 unit squares

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

9) Jacob makes 7 groups of 10 beads. Fill in the place-value chart.

Tens	Ones
—	—

What is the total number of beads?

- A. 17
- B. 70
- C. 7
- D. 107



10) A runner drove 268 miles on Monday and 305 miles on Tuesday. She estimates the total distance by rounding each number to the nearest hundred. What is her estimate?

- A. 500 miles C. 700 miles
 B. 800 miles D. 600 miles

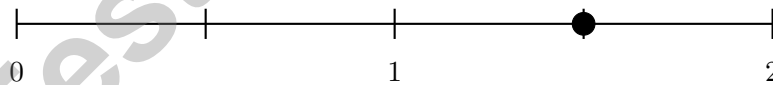
11) Which missing divisor makes this division sentence true?

$$18 \div _ = 3$$

- A. 5 C. 21
 B. 15 D. 6

12) What is 6×4 ?

13) A number line goes from 0 to 2 with 4 equal parts. What number is marked by the dot?



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



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1) A grid shows 6 rows and 5 columns of squares. How many squares are there?

- A. 11 C. 25
 B. 35 D. 30

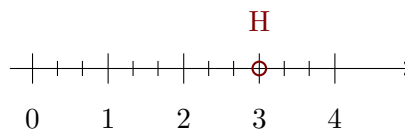
2) Noah has 3 groups of stickers. Each group has 4 red and 3 blue stickers. Which expanded equation finds the total?

- A. $3 \times (4 + 3) = 21$ C. $3 + 4 + 3 = 10$
 B. $3 \times 4 = 12$ D. $3 \times 4 + 3 \times 3 = 21$

3) $354 + 186 = ?$

- A. 540 C. 549
 B. 539 D. 550

4) The bar is completely shaded. It shows $\frac{5}{5}$. Write the whole number this equals.



5)

The number line from 0 to 4 is divided into thirds. Point H is at the whole number 3. How many thirds from 0 to reach 3?

- A. $\frac{3}{3}$ C. $\frac{9}{3}$
 B. $\frac{6}{3}$ D. $\frac{12}{3}$



6) What is 3×8 ?

A. 24

B. 28

C. 30

D. 32

7) Ava earns \$8 per hour. She works for some number of hours and earns \$56. Which division equation helps find how many hours she worked?

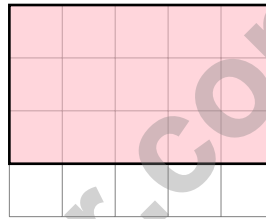
A. $56 \div 8 = \square$

B. $8 \times \square = 56$

C. $56 + 8 = \square$

D. $56 - 8 = \square$

8) Count the square units in the shaded grid.



A. 15 square units

B. 10 square units

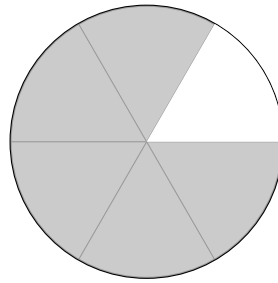
C. 20 square units

D. 12 square units



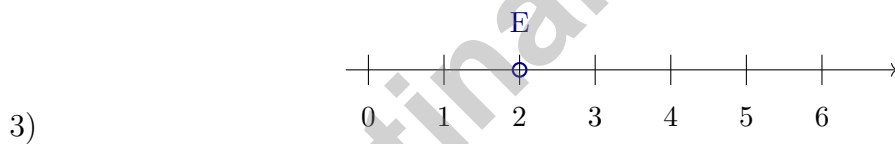
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- 1) A cake is divided into 6 equal pieces. Ava takes one piece. Which fraction is left?



- A. $\frac{1}{6}$ C. $\frac{5}{6}$
 B. $\frac{2}{6}$ D. $\frac{6}{6}$
- 2) Mia tiles a rectangle that is 3 tiles wide and 6 tiles tall. Jordan tiles a rectangle that is 2 tiles wide and 9 tiles tall. Whose rectangle has a bigger area?

- A. Mia's rectangle C. They have the same area
 B. Jordan's rectangle D. Cannot tell from this information



The number line from 0 to 6 has point E at 2. What fraction of the distance from 0 to 6 is point E ?

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



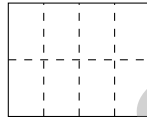
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4) Which equation is false?

- A. $6 \times (10 + 1) = (6 \times 10) + (6 \times 1) = 60 + 6 = 66$
 C. $3 \times (7 + 1) = (3 \times 7) + (3 \times 1) = 21 + 3 = 24$
- B. $4 \times (5 + 2) = (4 \times 5) + (4 \times 2) = 20 + 8 = 28$
 D. $5 \times (6 + 3) = 5 \times 6 - 5 \times 3 = 30 - 15 = 15$

5) Noah has 16 pencils. He puts them into 4 boxes equally. Which division equation shows this?

- A. $4 \times 4 = 16$
 C. $16 - 4 = 12$
- B. $16 + 4 = 20$
 D. $16 \div 4 = 4$



6)

This rectangle is divided into equal parts. What multiplication sentence shows this?

- A. $2 \times 2 = 4$
 C. $5 \times 2 = 10$
- B. $3 \times 2 = 6$
 D. $4 \times 2 = 8$



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 A is correct.** **(3.OA.3)** Divide: $28 \div 4 = 7$ plates.
- 2) **Choice D is correct.** **(3.OA.1)** 8 packs with 6 cards each means 8 groups of 6. So $8 \times 6 = 48$ cards.
- 3) **Choice B is correct.** **(3.NF.3b)** The denominator was multiplied by 2 (from 3 to 6). Multiply the numerator by 2: $2 \times 2 = 4$. So $\frac{2}{3} = \frac{4}{6}$.
- 4) **Choice B is correct.** **(3.MD.1)** $2 : 18 + 44 \text{ min} = 2 : 18 + 42 \text{ min} + 2 \text{ min} = 3 : 00 + 2 \text{ min} = 3 : 02 \text{ PM}$.
- 5) **Choice B is correct.** **(3.MD.7)** Adding the width 3 seven times: $3 + 3 + 3 + 3 + 3 + 3 + 3 = 21$. This is the same as $7 \times 3 = 21$ square units.
- 6) **The correct answer is 4 sides.** **(3.G.1)** A square has 4 sides.
- 7) **Choice C is correct.** **(3.MD.5a)** Count rows and columns: 4 units wide and 2 units tall equals $4 \times 2 = 8$ unit squares covering the rectangle with no gaps or overlaps.
- 8) **Choice B is correct.** **(3.MD.7b)** Area = length \times width = $10 \times 2 = 20$ square feet.
- 9) **Choice B is correct.** **(3.NBT.3)** The chart shows 7 tens and 0 ones. So $7 \times 10 = 70$ beads. The tens place has 7; ones place has 0.
- 10) **Choice D is correct.** **(3.NBT.2)** Round 268 to the nearest hundred: 300 (since $268 > 250$). Round 305 to the nearest hundred: 300. Estimate: $300 + 300 = 600$ miles. (Exact answer: 573 miles.)
- 11) **Choice D is correct.** **(3.OA.2)** If $18 \div ? = 3$, then $? = 6$ because $6 \times 3 = 18$. Check: $18 \div 6 = 3$ is correct.
- 12) **The correct answer is 24.** **(3.OA.5)** By the commutative property, $4 \times 6 = 6 \times 4 = 24$.
- 13) **Choice D is correct.** **(3.NF.2)** The line from 0 to 2 is cut into 4 equal steps, so each step is $\frac{1}{2}$. The third tick is $1\frac{1}{2}$.
- 14) **The correct answer is 8.** **(3.OA.7a)** $72 \div 9 = 8$.
- 15) **Choice C is correct.** **(3.OA.9)** The pattern adds 3 each week: 3, 6, 9, 12. This is skip counting by 3.
- 16) **Choices A and C are correct.** **(3.MD.5)** A is correct: area uses square units (sq in, sq cm, etc.). C is correct: the formula is $A = \ell \times w$. B is wrong: that is perimeter. D is wrong: they measure different things. E is wrong: perimeter and area are independent.
- 17) **Choice D is correct.** **(3.OA.4)** Use the inverse: $9 \times 6 = 54$, so $54 \div 6 = 9$.
- 18) **Choice B is correct.** **(3.NF.3)** Lily gave 2 out of 8 stickers, which is $\frac{1}{4}$.
- 19) **Choice D is correct.** **(3.NBT.1)** The tens digit is 8. Since $8 \geq 5$, round up: 586 rounds to 600.
- 20) **Choice A is correct.** **(3.MD.6)** Area = $8 \times 4 = 32$ square centimeters.
- 21) **Choice B is correct.** **(3.MD.7d)** Bottom: $5 \times 2 = 10$ sq units. Top: $2 \times 2 = 4$ sq units. Total: $10 + 4 = 14$ sq units.
- 22) **Choice D is correct.** **(3.OA.6)** The multiplication fact $3 \times 5 = 15$ tells us that 15 beads divided into 3 necklaces gives 5 beads each. $15 \div 3 = 5$.
- 23) **Choice B is correct.** **(3.MD.5b)** The pink square is still one of the unit squares. The rectangle has $4 \times 3 = 12$ distinct unit squares.
- 24) **Choice C is correct.** **(3.NF.1)** A whole divided into 2 equal parts gives each part the name $\frac{1}{2}$ (one-half).
- 25) **Choice A is correct.** **(3.MD.7c)** Both rectangles must have the same dimension (width 5) so they share a side when tiled together.
- 26) **Choice D is correct.** **(3.MD.4)** At $5\frac{1}{2}$, there are zero X's. All other values have at least one X.
- 27) **Choice C is correct.** **(3.MD.3)** $7 + 4 = 11$ balloons.
- 28) **Choice A is correct.** **(3.G.2)** If 4 out of 6 parts are shaded, then $6 - 4 = 2$ parts are not shaded, which is $\frac{2}{6}$.
- 29) **Choice C is correct.** **(3.MD.2b)** 1 L = 1000 mL. Subtract: $1000 - 300 = 700$ mL drunk.
- 30) **Choice D is correct.** **(3.NF.2b)** Each whole number spans 3 ticks. From 0, the tick at position $1\frac{1}{3}$ is the 4th tick, which is $\frac{4}{3}$.

Practice Test 2 Answers and Explanations



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Hi, Math Athlete!

◇ 8 practice tests done! That's serious training. Your math muscles are strong. You are in great shape for the big test. ◇

★ **Trainers know:** muscle memory is real. The more you practice, the more your brain knows what to do without thinking. You built that muscle memory! ★

Athlete Performance

- **Endurance:** TOP! You can finish a long test.
- **Strength:** STRONG! You handle hard problems.
- **Speed:** JUST RIGHT! You don't rush.
- **Recovery:** GOOD! You bounce back from tough questions.

Trainer tip: on test day, drink water, breathe deeply, and warm up with the easier questions first. Your training will carry you the rest of the way!

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

Jay Daie

Your Math Trainer

PRACTICE TODAY. MASTER TOMORROW.

This book is designed to help **Grade 3** students strengthen their math skills through focused practice and real progress.

- ✓ 8 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success



EACH PRACTICE TEST INCLUDES:



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Aligned
Questions



Variety of
Question
Types



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Math
Applications



Step-by-Step
Progress
Tracking



Build Skills
and Boost
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