

4

New York NYSTP

Grade 3

MATH

PRACTICE TESTS

Standards-Aligned Practice



STANDARDS-ALIGNED

Practice to build skills and boost confidence



4 FULL-LENGTH TESTS

Realistic questions to prepare for test day



ANSWER KEYS & EXPLANATIONS

Detailed solutions to learn and improve



4 New York NYSTP Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



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

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Welcome to the New York Math Launch

Four missions, careful work, and a stronger Grade 3 thinker



Read the mission. Show the work. Check the answer. Launch again.

To the Grade 3 Mission Leader

This book is a four-mission practice launch for the New York NYSTP. Each test gives you a fresh chance to multiply, divide, read graphs, compare fractions, measure, find area, and explain math in a way someone else can follow.

New York has city grids, mountain trails, river bridges, and many ways to solve a problem. Good math uses the same habit: pause, check the details, and move forward with a steady plan.

Notice

Find the numbers, units, and question before choosing a path.

Model

Draw an array, number line, table, or quick equation.

Verify

Ask whether your answer fits the story and the unit.

Launch promise: I will slow down at the important moments, show the work I can, and use every miss as a clue for the next mission.

How to Use This Book

A four-mission routine for steady Grade 3 growth

1. Warm Up the System

Read the review pages first. Remind your brain how equal groups, fractions, clocks, graphs, and area models work.

2. Fly One Mission

Take one complete 30-question test. Keep your work neat enough that you can check it later.

3. Review the Flight

Use the answer key, then pause. A wrong answer is useful when you can name what happened.

4. Repair and Relaunch

Rework a few missed questions before starting the next test. The repair step is where the score begins to move.

A Four-Session Plan

Session 1	Take Test 1 and mark the topics that need attention.
Session 2	Take Test 2 and focus on showing every step clearly.
Session 3	Take Test 3 and watch for units, labels, and two-step problems.
Session 4	Take Test 4 and finish with calm, careful checking.

Best mission habit: After checking answers, write one sentence: “Next time I will pay attention to _____.”



Test Overview

What each Grade 3 math mission asks you to do

Each practice test has 30 questions. Across four tests, you will practice the kind of Grade 3 math thinking used on the New York NYSTP: reading carefully, choosing a strategy, doing accurate computation, and explaining enough work to make your answer clear.

Multiple Choice

Look for the best answer. Estimate first when you can, cross out choices that do not fit, and reread the question before you choose.

Open Response

Write the answer and show the reason. A good Grade 3 response may use a drawing, equation, table, number line, or a few clear words.

Math Ideas Inside the Four Tests

- multiplication, division, arrays, missing factors, and two-step word problems
- place value, rounding, addition, subtraction, and multiplying by tens
- unit 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 shape categories

What strong NYSTP work looks like: the answer matches the question, the units make sense, and the work is clear enough to check.

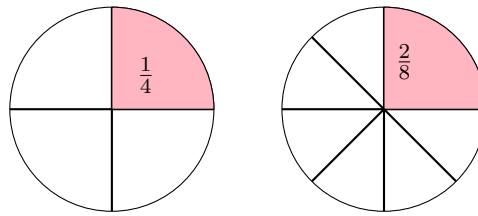


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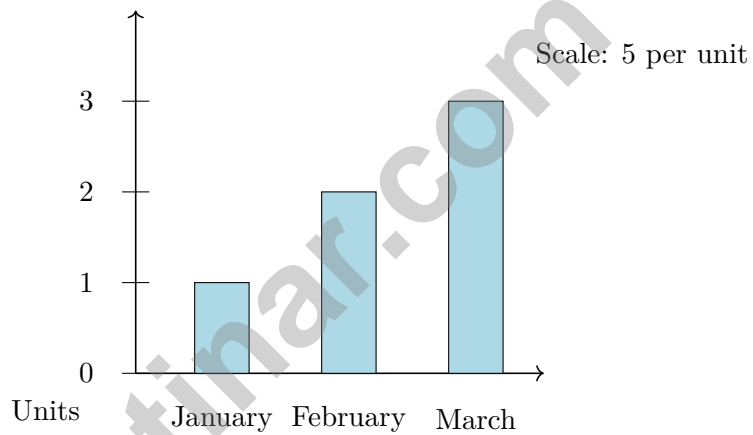
★ Practice Test 1	_____	15
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1) Look at the pies. Which statement is true?



- A. They show the same amount C. The right pie is larger
 B. The left pie is larger D. They are not equal

2) Look at the bar graph. Which statement about the bars is true?



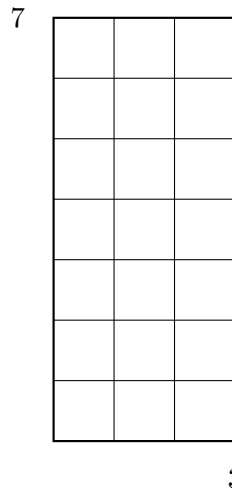
- A. March is the shortest bar. C. March is the tallest bar.
 B. January is taller than February. D. All bars are the same height.

3) A square has an area of 25 square inches. How long is each side?

- A. 5 inches C. 6 inches
 B. 4 inches D. 12 inches



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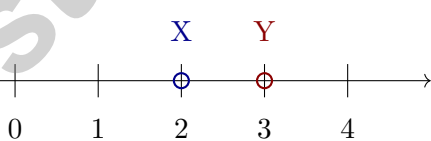
4) 3

The tall rectangle has unit squares. What is the area?

- A. 10
- B. 20
- C. 37
- D. 21

5) Round 893 to the nearest 100.

- A. 800
- B. 890
- C. 893
- D. 900

6) 

Points X and Y are on a number line from 0 to 4. X is at 2 and Y is at 3. What is the sum of the fractions for both points?

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

7) Mia spent \$176 on books and \$245 on pencils. How much did Mia spend in total?

A. \$411

C. \$420

B. \$431

D. \$421



8)

5 units

What is the area of this rectangle?

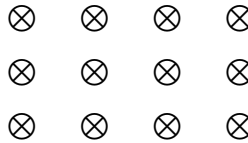
A. 7 sq units

C. 12 sq units

B. 10 sq units

D. 15 sq units

9) A square has how many right angles?



10)

What multiplication matches this equal-groups picture?

A. $6 \times 3 = 18$

C. $12 \times 2 = 24$

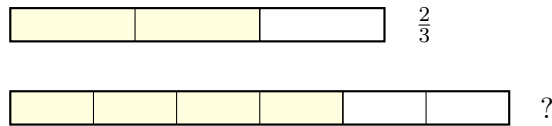
B. $3 \times 5 = 15$

D. $4 \times 3 = 12$



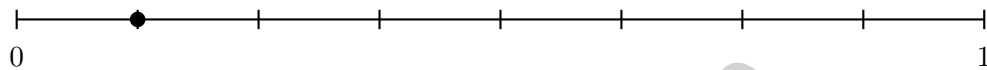
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1) Look at the bars. Which fraction is equivalent to $\frac{2}{3}$?



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

2) Which statement about $\frac{1}{8}$ on an 8-part number line is FALSE?



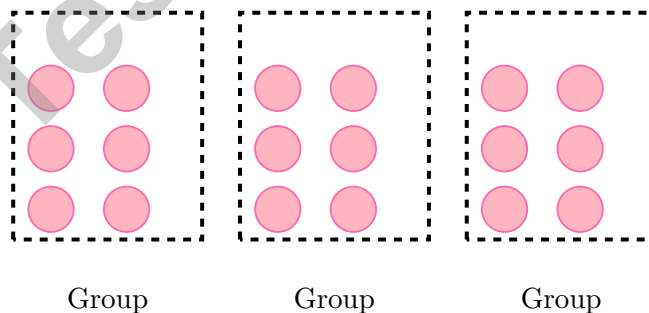
- A. $\frac{1}{8}$ is at the first tick
 C. $\frac{1}{8}$ equals $\frac{2}{4}$
 B. $\frac{1}{8}$ is closer to 0 than 1
 D. $\frac{1}{8}$ is one equal part out of eight

3) A farmer puts 7 eggs in each carton. If he fills 9 cartons, how many eggs are there?

- A. 56 eggs
 C. 72 eggs
 B. 16 eggs
 D. 63 eggs

4) Which number sentence matches the picture?

18 items in 3 groups



- A. $18 \div 3 = 6$
 C. $18 \div 2 = 9$
 B. $18 \div 9 = 2$
 D. $3 + 6 = 9$



- 5) Noah draws a rectangle that is 6 units wide and 5 units tall. He covers it with unit squares. How many unit squares does he use? Draw or describe the rectangle if it helps.



6)



Which sides in this quadrilateral appear to be parallel?

- A. Only the red sides
- B. Only the blue sides
- C. Both the red and blue sides
- D. No sides are parallel
- 7) Sam arranges his toy soldiers in an array with 8 rows and 4 columns. How many soldiers does he have?
- A. 24
- B. 12
- C. 36
- D. 32
- 8) What is $45 \div 5$?
- A. 8
- B. 11
- C. 10
- D. 9
- 9) A bar graph shows hours practiced. Piano: 6 units (scale: 2 hours per unit). Guitar: 4 units (scale: 2 hours per unit). How many more hours was piano practiced?
- A. 2
- B. 4
- C. 8
- D. 12



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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 A is correct.** **(3.NF.A.3)** Both pies show the same shaded region. $\frac{1}{4}$ and $\frac{2}{8}$ are equivalent.
- 2) **Choice C is correct.** **(3.MD.B.3)** January is 1 unit, February is 2 units, March is 3 units. March is tallest.
- 3) **Choice A is correct.** **(3.MD.C.5)** If the area is 25 square inches and it is a square, then $5 \times 5 = 25$, so each side is 5 inches.
- 4) **Choice D is correct.** **(3.MD.C.7a)** $3 \times 7 = 21$ square units. C is sum error.
- 5) **Choice D is correct.** **(3.NBT.A.1)** The tens digit is 9. Since $9 \geq 5$, round up: 893 rounds to 900.
- 6) **Choice D is correct.** **(3.NF.A.2b)** $X = \frac{2}{4}$; $Y = \frac{3}{4}$. Sum: $\frac{2}{4} + \frac{3}{4} = \frac{5}{4}$.
- 7) **Choice D is correct.** **(3.NBT.A.2)** Add: $176 + 245 = 421$. Ones: $6 + 5 = 11$ (write 1, carry 1). Tens: $7 + 4 + 1 = 12$ (write 2, carry 1). Hundreds: $1 + 2 + 1 = 4$.
- 8) **Choice B is correct.** **(3.MD.C.7)** Area = $5 \times 2 = 10$ square units.
- 9) **The correct answer is 4 right angles.** **(3.G.A.1)** A square has 4 right angles.
- 10) **Choice D is correct.** **(3.OA.A.1)** The picture shows 4 columns with 3 symbols in each column. This is 4 groups of 3, so $4 \times 3 = 12$.
- 11) **The correct answer is 68.** **(3.OA.D.8)** $7 \times 9 = 63$, and $63 + 5 = 68$.
- 12) **Choice A is correct.** **(3.MD.C.7c)** Both rectangles share width 5. Adding them means adding the other dimensions: $9 + 3 = 12$, so $5 \times (9 + 3)$.
- 13) **Choices A and B are correct.** **(3.NF.A.2a)** A and B are the direct descriptions of the unit fraction $\frac{1}{6}$. The fourth tick is $\frac{4}{6}$, not $\frac{5}{6}$, so C is false. D is false because the denominator is 6, and E is false because one part is $\frac{1}{6}$, not $\frac{1}{12}$.
- 14) **Choice B is correct.** **(3.OA.B.6)** The missing factor is 3 because $3 \times 6 = 18$. This is the same as $18 \div 6 = 3$. We find the unknown factor by thinking about division. Option A ($2 \times 6 = 12$) is too small. Option D confuses the known factor with the answer.
- 15) **Choice A is correct.** **(3.NF.A.1)** The rectangle is divided into 3 equal sections with 1 shaded. This is one unit fraction of $\frac{1}{3}$ (one-third).
- 16) **Choice C is correct.** **(3.MD.C.7d)** Top: $3 \times 5 = 15$ sq units. Bottom left: $2 \times 4 = 8$ sq units. Bottom right: $2 \times 4 = 8$ sq units. Total: $15 + 8 + 8 = 31$ sq units.
- 17) **Choice A is correct.** **(3.NF.A.3d)** Same numerator: fourths are smaller pieces than thirds. One fourth is smaller than one third.
- 18) **Choice C is correct.** **(3.OA.D.9)** $5 \times 7 = 35$, which is odd. Choices A, B, D all have an even factor, so they give even products.
- 19) **Choice C is correct.** **(3.NF.A.3c)** $\frac{6}{3}$ means 6 thirds; 3 thirds make 1, so 6 thirds = 2 wholes. (A) is false: $\frac{5}{1} = 5$. (B) is false: $\frac{4}{4} = 1$. (D) is false: $\frac{3}{1} = 3$ and $\frac{1}{3}$ is a unit fraction.
- 20) **Choice D is correct.** **(3.OA.B.5)** The area model shows a rectangle split into two parts: one part is $3 \times 2 = 6$ and the other is $2 \times 2 = 4$. Using the distributive property: $2 \times (3 + 2) = 2 \times 3 + 2 \times 2 = 6 + 4 = 10$.
- 21) **Choice C is correct.** **(3.NF.A.2)** Moving right from $\frac{2}{4}$, the next tick mark shows $\frac{3}{4}$.
- 22) **Choice D is correct.** **(3.OA.A.4)** Use the inverse: $8 \times 5 = 40$, so $40 \div 5 = 8$.
- 23) **Choice B is correct.** **(3.MD.A.1)** At 3 : 27, the minute hand points to 27 minutes, just past the 5. The hour hand is between 3 and 4, just past 3. Clock 2 shows this accurately.
- 24) **Choice A is correct.** **(3.MD.A.2)** 4 kg = 4000 g, which is more than 2500 g.
- 25) **Choice A is correct.** **(3.MD.C.5a)** The rectangle is 4 by 2, so it has 8 unit squares total. A vertical line through the middle divides it into two 2-by-2 sections of 4 each.
- 26) **Choice C is correct.** **(3.MD.C.5b)** $10 \times 4 = 40$ unit square tiles are needed.
- 27) **The correct answer is $\frac{1}{2}$.** **(3.NF.A.3a)** $\frac{3}{6} = \frac{1}{2}$.
- 28) **Choice A is correct.** **(3.NF.A.3b)** Divide the numerator and denominator of $\frac{2}{4}$ by 2: $\frac{2 \div 2}{4 \div 2} = \frac{1}{2}$.
- 29) **Choice B is correct.** **(3.MD.B.4)** At least $6\frac{1}{4}$ means $6\frac{1}{4}$ and longer: $3 + 1 + 1 + 1 = 6$ ropes.



Hi, Math Detective!

◇ You did such a great job! You finished 4 tests like a real detective. You found the clues, used your tools, and solved the math. ◇

★ **Detectives know:** good work takes time. You took your time. You looked carefully. You found the answers! ★

Your Detective Skills

- **Sharp Eyes:** You notice the small details.
- **Smart Plans:** You pick the right way to solve.
- **Brave Heart:** You try even when it's tricky.
- **Steady Work:** You finish what you start.

Detective tip: on test day, look carefully at each problem. Underline important words. Then solve like the detective you are!

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

Jay Daie

Your Math Detective Helper

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Build Skills. Achieve More.

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