

5

New York

NYSTP

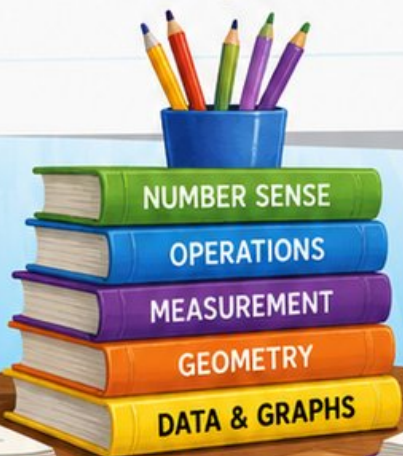
GRADE 3

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 New York NYSTP 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 New York NYSTP. Each checkpoint is a full 30-question test, so you can practice stamina, accuracy, and the habit of showing what you know.

New York has city grids, mountain trails, river bridges, and many ways to solve a problem. 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 New York 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.



Scan me!  
For more practice  
& answers

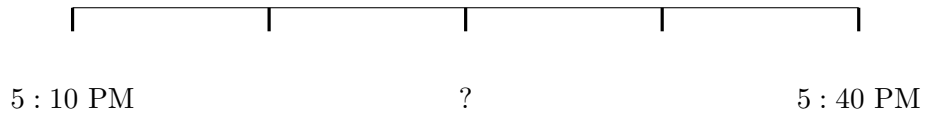
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1) A bar graph shows candies. Each bar height represents units. The scale is 5 candies per unit. Red bar is 2 units, blue is 3 units, green is 4 units. How many candies in total?

- A. 45                                       C. 35  
 B. 40                                       D. 50

2) A number line shows times. What is the time at the middle mark?



- A. 5 : 20 PM                                       C. 5 : 30 PM  
 B. 5 : 25 PM                                       D. 5 : 35 PM

3) A floor tile is 1 inch by 1 inch. A floor has 8 rows and 6 tiles in each row. What is the area?

- A. 14 sq in                                       C. 28 sq in  
 B. 48 sq in                                       D. 64 sq in

4) Lily has 6 whole crayons. Which shows this as a fraction?

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

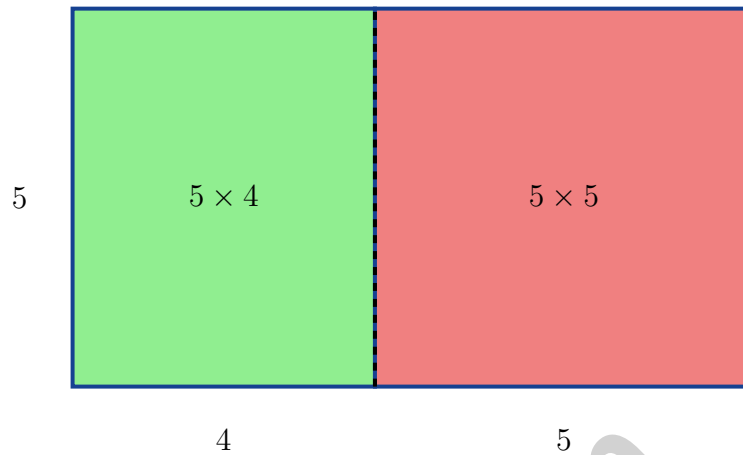
5) A small rug covers 12 square feet of floor. A large rug covers 12 square meters of floor. Which rug covers more actual floor space?

- A. The small rug (12 square feet)                                       C. They cover the same space  
 B. The large rug (12 square meters)                                       D. Need to know the shape of the rug



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& answers

6) Look at this area model split into two parts.



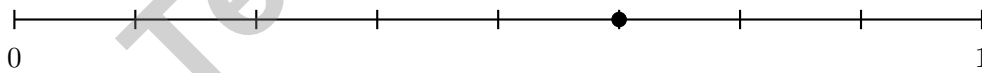
What is the total area?

- A. 20                       C. 50  
 B. 25                       D. 45

7) Which product is smaller?

- A.  $2 \times 80$                        C. They are equal  
 B.  $4 \times 30$                        D. Cannot tell

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



9) What multiplication sentence helps you solve  $21 \div 3$ ?

A.  $3 \times 7 = 21$

C.  $3 \times 8 = 24$

B.  $3 \times 6 = 18$

D.  $3 \times 9 = 27$

10) What number makes the equation true?

$$30 \div 5 = \square$$

A. 5

C. 7

B. 8

D. 6

11) A line plot shows plant stem lengths in centimeters: 12,  $12\frac{1}{4}$ ,  $12\frac{1}{2}$ ,  $12\frac{3}{4}$ , 13. The counts are: 3 at 12 cm, 1 at  $12\frac{1}{4}$  cm, 0 at  $12\frac{1}{2}$  cm, 2 at  $12\frac{3}{4}$  cm, and 1 at 13 cm. What is the range?

A.  $\frac{1}{4}$  cm

C. 1 cm

B.  $\frac{3}{4}$  cm

D. 2 cm

12) Ben is marking  $\frac{2}{4}$  on a number line from 0 to 1. He divides it into 4 equal parts. Which tick mark should he label?

A. The 1st tick

C. The 3rd tick

B. The 4th tick

D. The 2nd tick

13) Find the missing number:  $? + 256 = 781$ . What is the missing addend?



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For more practice  
& answers

1) 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                       C. 2000 mL  
 B. 1500 mL                       D. 3000 mL

2) A number line from 0 to 1 is divided so that the unit fraction at the first tick is  $\frac{1}{3}$ . How long is the second tick from 0?

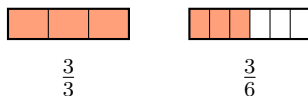
- A.  $\frac{1}{3}$                                        C.  $\frac{1}{6}$   
 B.  $\frac{2}{3}$                                        D.  $\frac{3}{2}$

3) A rectangle is 8 units long and 12 units wide. If split into two rectangles with the same length of 8, and widths of 7 and 5, which is correct?

- A.  $8 \times (7 + 5) = 8 \times 12 = 96$  square units       C.  $7 + 5 = 13$  units  
 B.  $8 + 12 = 20$  units                                       D.  $(8 \times 7) + (8 \times 5) = 56 + 40 = 96$  square units

4) A rectangular poster has an area of 45 square inches. The width of the poster is 5 inches. Find the length of the poster. (Hint: Area = length  $\times$  width.)

- A. 9 inches                                       C. 50 inches  
 B. 8 inches                                       D. 40 inches



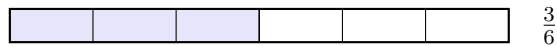
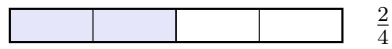
5)

Compare  $\frac{3}{3}$  and  $\frac{3}{6}$ . Which is true?

- A.  $\frac{3}{3} < \frac{3}{6}$                                        C.  $\frac{3}{3} = \frac{3}{6}$   
 B.  $\frac{3}{3} > \frac{3}{6}$                                        D.  $\frac{3}{6} > \frac{3}{3}$

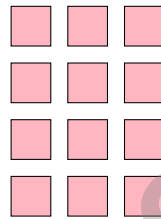


6) Look at the bars. Are  $\frac{2}{4}$  and  $\frac{3}{6}$  equivalent?



- A. Yes, they are equivalent                       C. The first is larger  
 B. No, they are not equivalent                 D. The second is larger

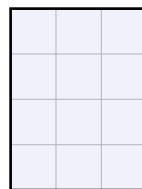
7)



How many small squares are in this grid?

- A. 15     C. 10  
 B. 7     D. 12

8) A grid shows a rectangle with 3 columns and 4 rows of unit squares.



What is the area?

- A. 7 sq units     C. 12 sq units  
 B. 9 sq units     D. 15 sq units



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& answers

1) Which division sentence is matched by “18 apples put into bags of 6 apples each”?

A.  $6 \div 18$

C.  $18 + 6$

B.  $6 \times 18$

D.  $18 \div 6$

2) What is 429 rounded to the nearest 10?

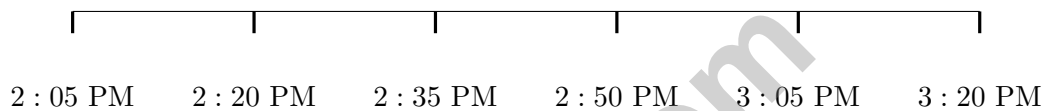
A. 420

C. 430

B. 429

D. 500

3) Look at the number line showing elapsed time.



What is the elapsed time from 2 : 35 PM to 3 : 05 PM?

A. 25 minutes

C. 35 minutes

B. 30 minutes

D. 45 minutes

4) A whiteboard is 5 feet long and 4 feet wide. What is its area?

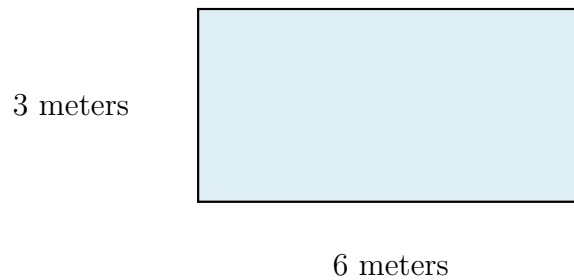
A. 9 sq ft

C. 20 sq ft

B. 18 sq ft

D. 25 sq ft

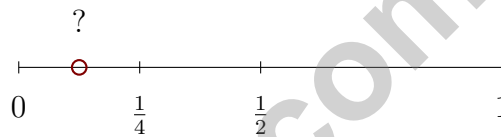




5)

A rectangular pool is 6 meters long and 3 meters wide. Find its area.

- |                                     |                                     |
|-------------------------------------|-------------------------------------|
| <input type="checkbox"/> A. 9 sq m  | <input type="checkbox"/> C. 15 sq m |
| <input type="checkbox"/> B. 36 sq m | <input type="checkbox"/> D. 18 sq m |



6)

The red dot is between 0 and  $\frac{1}{4}$ . What fraction could it be?

- |   |   |
|---|---|
| <input type="checkbox"/> A. $\frac{1}{8}$ | <input type="checkbox"/> C. $\frac{1}{3}$ |
| <input type="checkbox"/> B. $\frac{1}{4}$ | <input type="checkbox"/> D. $\frac{2}{4}$ |

7) A rectangle has length 6 units and width 2 units. It has 6 rows with 2 unit squares in each row. Using repeated addition:  $2 + 2 + 2 + 2 + 2 + 2 = ?$

- |   |   |
|---|---|
| <input type="checkbox"/> A. 8 sq units  | <input type="checkbox"/> C. 10 sq units |
| <input type="checkbox"/> B. 12 sq units | <input type="checkbox"/> D. 14 sq units |



Scan me!  
For more practice  
& answers

## 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

- Choice A is correct. **(3.MD.B.3)** Red:  $2 \times 5 = 10$ . Blue:  $3 \times 5 = 15$ . Green:  $4 \times 5 = 20$ . Total:  $10 + 15 + 20 = 45$ .
- Choice B is correct. **(3.MD.A.1)** The interval from 5 : 10 to 5 : 40 is 30 minutes. The middle of 30 minutes is 15 minutes. So 5 : 10 + 15 = 5 : 25 PM.
- Choice B is correct. **(3.MD.C.6)** 8 rows  $\times$  6 tiles per row = 48 square inches.
- Choice B is correct. **(3.NF.A.3c)** Any whole number  $n$  equals  $\frac{n}{1}$ . So  $6 = \frac{6}{1}$ .
- Choice B is correct. **(3.MD.C.5)** A square meter is much larger than a square foot. 12 square meters covers far more area than 12 square feet. The number alone doesn't tell you the area; the unit matters!
- Choice D is correct. **(3.OA.B.5)**  $5 \times 4 = 20$  and  $5 \times 5 = 25$ , so  $20 + 25 = 45$ . This also equals  $5 \times 9 = 45$ .
- Choice B is correct. **(3.NBT.A.3)**  $2 \times 80 = 160$  and  $4 \times 30 = 120$ . Since  $120 < 160$ , the product  $4 \times 30$  is smaller.
- Choice C is correct. **(3.NF.A.2)** The dot is at the 5th mark out of 8 equal divisions, so the fraction is  $\frac{5}{8}$ .
- Choice A is correct. **(3.OA.B.6)**  $21 \div 3 = \square$  asks:  $\square \times 3 = 21$ . Since  $7 \times 3 = 21$ , the answer is 7.
- Choice D is correct. **(3.OA.A.4)** Think:  $6 \times 5 = 30$ , so  $30 \div 5 = 6$ .
- Choice C is correct. **(3.MD.B.4)** Range = max - min =  $13 - 12 = 1$  cm.
- Choice D is correct. **(3.NF.A.2b)**  $\frac{2}{4}$  means 2 out of 4 equal parts. That is the 2nd tick mark.
- The correct answer is 525. **(3.NBT.A.2)** Subtract to find the missing addend:  $781 - 256 = 525$ . Check:  $525 + 256 = 781$ .
- Choice C is correct. **(3.NBT.A.1)** The ones digit is 5. Since  $5 \geq 5$ , round up: 95 rounds to 100 (rollover case).
- Choice C is correct. **(3.MD.C.5a)** A  $4 \times 4$  square needs  $4 \times 4 = 16$  unit squares (tiles of 1 foot by 1 foot).
- Choice D is correct. **(3.OA.A.1)** 4 packs with 7 sheets each means 4 groups of 7. So  $4 \times 7 = 28$  sheets.
- Choices B and D are correct. **(3.NF.A.3d)** With numerator 1, smaller denominators give larger pieces. Thirds and halves are larger than fourths. A and C have larger denominators (sixths and eighths) so they are smaller. E equals  $\frac{1}{4}$  (not greater).
- Choice C is correct. **(3.OA.D.9)** Add 7 each time:  $42 + 7 = 49$ . Multiples of 7 always increase by 7.
- Choice C is correct. **(3.OA.C.7)**  $9 \times 6 = 54$ . Count by 6s: 6, 12, 18, 24, 30, 36, 42, 48, 54.
- Choice D is correct. **(3.OA.A.2)**  $24 \div 6 = 4$ . Divide the total pages by the number of days.
- Choice B is correct. **(3.MD.C.7d)** Add the areas:  $28 + 16 = 44$  square units.
- Choice A is correct. **(3.MD.C.7c)** Multiply the outside number by each part inside, then add.
- The correct answer is 2800 g. **(3.MD.A.2)** Convert: 2 kg = 2000 g. Add:  $2000 + 500 + 300 = 2800$  g.
- Choice C is correct. **(3.NF.A.3b)** Divide the numerator and denominator of  $\frac{2}{6}$  by 2:  $\frac{2 \div 2}{6 \div 2} = \frac{1}{3}$ .
- Choice B is correct. **(3.MD.C.7)** Area =  $7 \times 2 = 14$  square inches.
- Choice C is correct. **(3.NF.A.3)**  $\frac{3}{4}$  is not equivalent to  $\frac{4}{8}$ , which equals  $\frac{1}{2}$ . The other choices all name three-fourths.
- Choice C is correct. **(3.MD.C.5b)** Counting rows and columns: 5 units wide and 3 units tall gives  $5 \times 3 = 15$  unit squares.
- Choice C is correct. **(3.NF.A.1)**  $\frac{1}{3} + \frac{1}{3} + \frac{1}{3} = \frac{3}{3} = 1$  whole. So 3 unit fractions of  $\frac{1}{3}$  make a whole.
- The correct answer is 8. **(3.NF.A.2a)** Eight equal parts of size  $\frac{1}{8}$  each sum to the whole interval.
- Choice C is correct. **(3.OA.D.8)** Step 1: Red apples:  $5 \times 7 = 35$  apples. Step 2: Green apples:  $4 \times 9 = 36$  apples. Total:  $35 + 36 = 71$  apples.

### Practice Test 2 Answers and Explanations

- Choice C is correct. **(3.MD.A.2)** Add:  $1000 + 500 + 500 = 2000$  mL.
- Choice B is correct. **(3.NF.A.2a)** The second tick is two of the three equal parts, which is  $\frac{2}{3}$ .



## Hi, Brave Explorer!

◇ What a trip! You explored 5 full tests. You went to many math places: multiplication, fractions, area, time, and more. ◇

★ **Smart explorers know:** every trip teaches something. Through 5 tests, you learned a lot. You are a stronger math explorer now. ★

### Your Explorer Tools

- **Map Reading:** You read problems carefully.
- **Trail Skills:** You take steps in the right order.
- **Backpack:** You have many math tools.
- **Brave Heart:** You explore even hard problems.

**Explorer tip:** on test day, use the tools you packed. You have the skills. You are ready!

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

# Build Skills. Boost Confidence. Excel in Grade 3 Math!

This book provides 5 full-length Grade 3 math practice tests that follow standards and help students achieve real results.



## 5 Full-Length Practice Tests

Realistic tests to build stamina and familiarity.



## Standards-Aligned Practice

Questions match Grade 3 math standards and key skills.



## Answer Keys & Explanations

Detailed answers that show steps and clear reasoning.



## Review & Master Skills

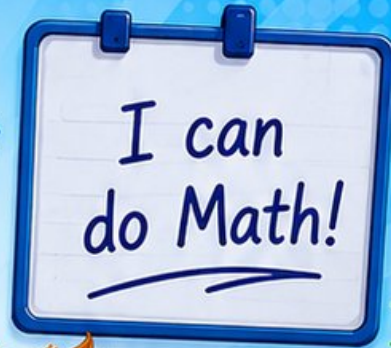
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- ✓ Word Problems
- ✓ And More!



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for more Grade 3 math resources  
and practice materials!



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

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

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



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