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10 New York NYSTP

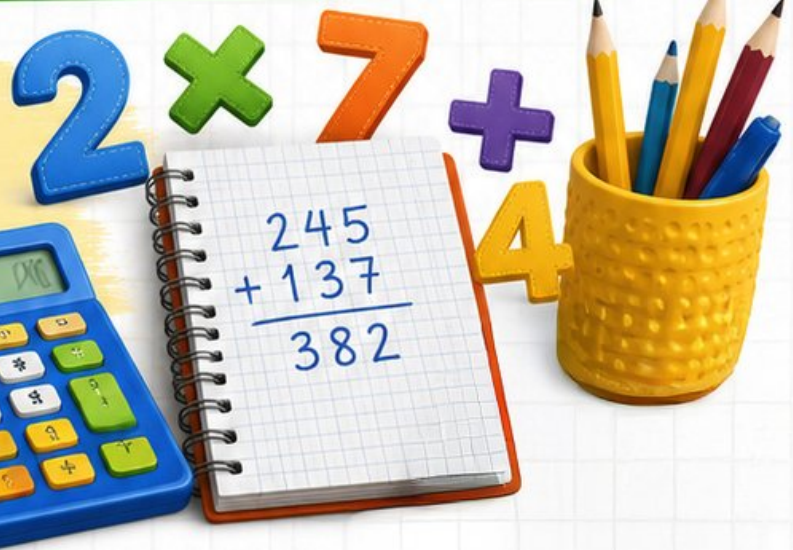


GRADE 3

MATH

PRACTICE TESTS

- ✓ Complete Standards Review
 - ✓ Skill Practice
 - ✓ Word Problems and Answer Key
- 



★ ★ ★
PREPARE
PRACTICE
SUCCEED!
★ ★ ★

 Aligned to
Grade 3 Math
Standards

 Build Confidence
and Master
Math Skills

 Test-Taking
Practice for
Success

 Answer Key
for Easy
Review

10 New York NYSTP Grade 3 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Ten complete 30-question Grade 3 practice rounds for NYSTP, built around city blocks, lake trails, and focused mixed practice, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, New York Math Explorer!

Ten steady rounds on the Empire State math route

This book gives you ten full Grade 3 practice tests for NYSTP. Each round uses city blocks, lake trails, and focused mixed practice to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

New York Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

How to Use This Book

A ten-session routine for New York NYSTP review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the Empire State math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

Good rhythm: Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



What Is Inside?

Ten tests, 300 questions, and a full NYSTP review path

| Part | What You Will Practice |
|--------------|---|
| Tests 1–3 | Warm-up rounds for reading carefully, choosing operations, and using models. |
| Tests 4–6 | Skill-building rounds with fractions, measurement, area, data, and two-step problems. |
| Tests 7–9 | Stamina rounds for mixed review, neat work, and flexible strategies. |
| Test 10 | Final round to show growth across the whole New York book. |
| Answer Pages | Compact keys and explanations that show why each answer works. |

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



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1) Mr. Kim buys 6 cases of juice with 9 bottles in each case. He donates 15 bottles to the school. How many bottles does he have left?

A. 24

C. 48

B. 39

D. 54

2) An L-shaped patio is shown with parts having areas 32 sq units and 15 sq units. What is the total?

A. 17 sq units

C. 64 sq units

B. 47 sq units

D. 480 sq units

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

A. $\frac{5}{6}$

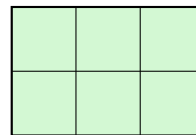
C. $\frac{1}{6}$

B. $\frac{6}{6}$

D. $\frac{1}{5}$



Y



Z

4)

Shapes Y and Z are both made of unit squares. Which is true?

A. Y has area 6, Z has area 6

C. Y has area 4, Z has area 8

B. Y has area 5, Z has area 5

D. Y has area 2, Z has area 3



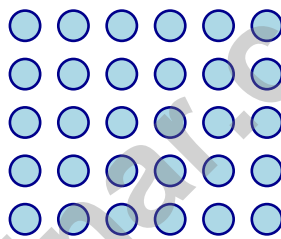
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5) If $\frac{1}{3} = \frac{2}{6}$, what numerator goes with denominator 6?

6) A toy costs \$5. Two toys cost \$10. Three toys cost \$15. Four toys cost \$20. How much do 5 toys cost?

- | | |
|----------------------------------|----------------------------------|
| <input type="checkbox"/> A. \$24 | <input type="checkbox"/> C. \$26 |
| <input type="checkbox"/> B. \$30 | <input type="checkbox"/> D. \$25 |

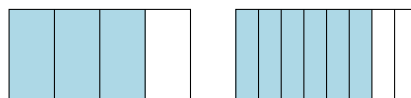
7) Look at this array. Count the objects.



5 rows with 6 objects in each row

- | | |
|--|--|
| <input type="checkbox"/> A. 25 objects | <input type="checkbox"/> C. 30 objects |
| <input type="checkbox"/> B. 28 objects | <input type="checkbox"/> D. 36 objects |

8) Look at the two rectangles. Do they show equivalent fractions?



Rectangle 1: $\frac{3}{4}$ Rectangle 2: $\frac{6}{8}$

- | | |
|---|---|
| <input type="checkbox"/> A. Yes, they are equivalent | <input type="checkbox"/> C. It is unclear |
| <input type="checkbox"/> B. No, they are not equivalent | <input type="checkbox"/> D. No, Rectangle 1 is larger |



9) Which fraction is equal to the whole number 5?

- A. $\frac{5}{1}$
 B. $\frac{5}{5}$

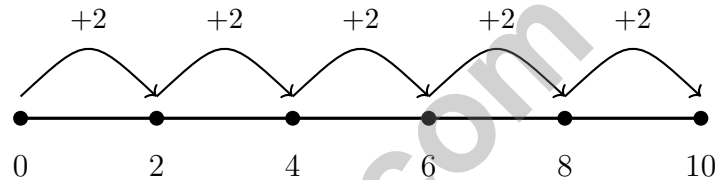
- C. $\frac{1}{5}$
 D. $\frac{5}{2}$

10) $902 - 418 = ?$

- A. 484
 B. 494

- C. 584
 D. 394

11) Which division sentence is represented by the number line?



- A. $10 \div 5$
 B. $2 + 10$

- C. 5×2
 D. $10 \div 2$

12) A rectangular flag has dimensions of 7 inches long and 4 inches wide. What is the area of the flag?

- A. 22 sq in
 B. 56 sq in

- C. 28 sq in
 D. 11 sq in

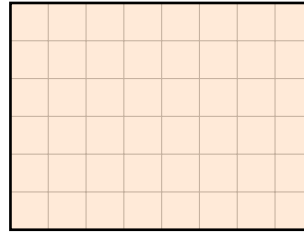
13) Two students round differently. Maria says 127 rounds to 130 (nearest 10). Josh says 127 rounds to 100 (nearest 100). Are both students correct? Explain.

- A. Both are wrong; the answer is 125
 B. Maria is wrong; Josh is right
 C. Both are correct because they are rounding to different place values
 D. Josh is wrong; Maria is right



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- 1) On a grid, a rectangle is 8 units long and 6 units wide.



How many unit squares fill it?

- A. 28 sq units C. 48 sq units
 B. 42 sq units D. 56 sq units
- 2) Which fraction is equivalent to $\frac{1}{3}$?
- A. $\frac{2}{4}$ C. $\frac{2}{6}$
 B. $\frac{2}{8}$ D. $\frac{3}{8}$
- 3) Which fraction is equivalent to $\frac{2}{4}$?
- A. $\frac{2}{3}$ C. $\frac{1}{2}$
 B. $\frac{3}{4}$ D. $\frac{2}{8}$
- 4) Noah has 24 pencils to put in 3 boxes equally. How many pencils go in each box?
- A. 6 pencils C. 8 pencils
 B. 7 pencils D. 9 pencils
- 5) A number line shows 0 to 1 split into 3 equal parts. How many equal parts are between 0 and $\frac{2}{3}$?



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6) In a soccer game, Team A scores 4 goals in the first half and 5 goals in the second half. Team B scores 6 goals total. Let g be how many more goals Team A scored. Which equation is correct?

A. $g = (4 + 5) - 6$

C. $g = 4 + (5 - 6)$

B. $g = 4 + 5 - 6$

D. $g = 4 + 5 + 6$

7) A farmer plants corn in an array with 4 rows and 8 plants in each row. How many plants does the farmer plant?

A. 32

C. 20

B. 24

D. 12

8) A rectangular tile is 7 inches long and 3 inches wide. How much area does one tile cover?

A. 20 sq in

C. 21 sq in

B. 28 sq in

D. 10 sq in

9) On a number line from 0 to 2 divided into fourths, how many fourths are there in total?

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

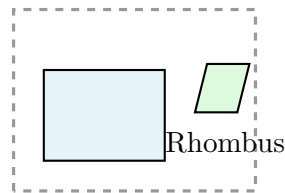
A. 11 sq units

C. 39 sq units

B. 50 sq units

D. 350 sq units





Rectangle

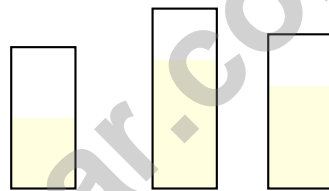
4)

Two shapes are shown. Which property do they share?

- A. Both have right angles C. Both have equal sides
 B. Both have 4 sides D. Both are squares

Three Containers

Container A Container B Container C



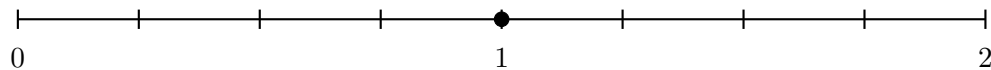
250 mL 500 mL 400 mL

5)

Which container holds the least amount of liquid?

- A. Container A C. Container C
 B. Container B D. All hold the same

6) On a number line from 0 to 2 divided into 8 equal parts, the mark at the fourth tick represents which distance from 0?



- A. $\frac{1}{8}$ C. $\frac{3}{8}$
 B. $\frac{2}{8}$ D. 1



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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 B is correct.** **(3.OA.8b)** Step 1: Find total bottles: $6 \times 9 = 54$ bottles. Step 2: Subtract: $54 - 15 = 39$ bottles left. (Choice D is step 1 only; choice C is incorrect.)
- 2) **Choice B is correct.** **(3.MD.7d)** Add the parts: $32 + 15 = 47$ square units.
- 3) **Choice C is correct.** **(3.NF.1)** The pie has 6 equal slices. Ava eats 1 slice, so she eats $\frac{1}{6}$ of the pie.
- 4) **Choice A is correct.** **(3.MD.5a)** Y is $2 \times 3 = 6$ unit squares. Z is $3 \times 2 = 6$ unit squares. Both have the same area of 6 square units.
- 5) **The correct answer is 2.** **(3.NF.3a)** $\frac{1}{3}$ is equivalent to $\frac{2}{6}$.
- 6) **Choice D is correct.** **(3.OA.9)** The cost goes up by \$5 each time. Five toys cost $5 \times 5 = \$25$.
- 7) **Choice C is correct.** **(3.OA.7a)** There are 5 rows with 6 objects in each row. $5 \times 6 = 30$ objects in total.
- 8) **Choice A is correct.** **(3.NF.3b)** Both rectangles show the same shaded area. $\frac{3}{4} = \frac{6}{8}$ because $\frac{3 \times 2}{4 \times 2} = \frac{6}{8}$.
- 9) **Choice A is correct.** **(3.NF.3c)** Any whole number with denominator 1 equals that number. $5 = \frac{5}{1}$. Check: (B) is all fifths, (C) is a unit fraction, (D) is not whole.
- 10) **Choice A is correct.** **(3.NBT.2)** Ones: $2 - 8$ requires regrouping, so $12 - 8 = 4$. Tens: $9 - 1 = 8$ (after regrouping). Hundreds: $8 - 4 = 4$. Answer: 484.
- 11) **Choice D is correct.** **(3.OA.2)** The number line shows jumps of 2 from 0 to 10. There are 5 jumps, so it represents $10 \div 2 = 5$.
- 12) **Choice C is correct.** **(3.MD.7b)** Area = length \times width = $7 \times 4 = 28$ square inches.
- 13) **Choice C is correct.** **(3.NBT.1)** For 127: to the nearest 10, look at the ones digit ($7 \geq 5$), so it rounds to 130. To the nearest 100, look at the tens digit ($2 < 5$), so it rounds to 100. Both answers are correct for their respective place values.
- 14) **Choices A and B are correct.** **(3.NF.2)** $\frac{2}{6} = \frac{1}{3}$ because $\frac{2}{6}$ simplifies to $\frac{1}{3}$. They represent the same point, one-third of the way from 0 to 1. The other choices name different points.
- 15) **Choice C is correct.** **(3.OA.5)** This is false. $8 \times 6 = 48$ but $7 \times 6 + 1 = 42 + 1 = 43$. Option C does not follow any property.
- 16) **Choice D is correct.** **(3.OA.6)** Since $5 \times 9 = 45$, the missing factor is 5. In a fact family, the division $45 \div 9 = 5$ gives the same answer as the missing factor.
- 17) **Choice B is correct.** **(3.NF.3)** $\frac{4}{8}$ and $\frac{1}{2}$ mark the same point on the line.
- 18) **Choice B is correct.** **(3.MD.5)** Multiply length by width: $9 \times 5 = 45$ square meters.
- 19) **Choice C is correct.** **(3.MD.5b)** Count the left tall part: 3 columns and 4 rows = $4 + 4 + 4 = 12$ unit squares. Count the right bottom part: 2 columns and 2 rows = $2 + 2 = 4$ unit squares. Total: $12 + 4 = 16$ unit squares in this L-shaped figure.
- 20) **Choice B is correct.** **(3.MD.6)** $3 \times 5 = 15$ unit squares.
- 21) **Choice D is correct.** **(3.OA.3)** Multiply: 6 rows \times 9 trees per row = 54 trees.
- 22) **Choice C is correct.** **(3.MD.7a)** Square: $6 \times 6 = 36$ tiles. D is concatenation error.
- 23) **The correct answer is 1500 mL.** **(3.MD.2b)** 5 L = 5000 mL. Total used: $2000 + 1500 = 3500$ mL. Remaining: $5000 - 3500 = 1500$ mL.
- 24) **Choice C is correct.** **(3.MD.4)** Shorter than $4\frac{1}{2}$ inches means 4 and $4\frac{1}{4}$ inches: that is $2 + 1 = 3$ pots.
- 25) **The correct answer is $\frac{1}{3}$.** **(3.G.2)** If 2 out of 3 parts are shaded, then 1 part is not shaded, which is $\frac{1}{3}$.
- 26) **Choice B is correct.** **(3.MD.3)** Ty: $6 \times 5 = 30$. Kim: $8 \times 5 = 40$. Fewer: $40 - 30 = 10$.
- 27) **Choice A is correct.** **(3.NBT.3)** Since $7 \times 50 = 350$, the missing factor is 7. We can work backwards: $350 \div 50 = 7$.
- 28) **Choice A is correct.** **(3.MD.7c)** Splitting 6 into $4 + 2$ and using the distributive property gives the same total area of 42.
- 29) **Choice B is correct.** **(3.G.1)** In a rectangle, opposite sides are equal. The opposite long side is also the length, which is 6 cm.
- 30) **Choice B is correct.** **(3.MD.7)** Area = $3 \times 5 = 15$ square feet.



Lab Notes for a Young Scientist

Hi, Curious Scientist!

◇ 10 tests. So many experiments! You tested ideas. You watched what worked. You learned a lot. That's how scientists work—and how you work! ◇

★ **Scientists know:** mistakes are facts, not failures. Every problem you missed taught you something. You used those facts to do better next time. ★

Lab Results

- **Hypothesis:** CONFIRMED! Practice makes you better.
- **Method:** STRONG! You try, watch, and adjust.
- **Data:** CAREFUL! You read and copy numbers right.
- **Conclusion:** READY! You can do this test.

Scientist tip: on test day, stay curious. Ask, "What is this asking?" Then experiment with your math tools. You will find the answer!

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

Jay Daie

Your Math Scientist

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