

4

COMPLETE

New York NYSTP

Grade

MATH

5

PRACTICE TESTS

Standards-Based Test Prep with
Mixed Review, Word Problems,
and **Full Answer Key**



- ✓ **4 COMPLETE PRACTICE TESTS**
Built to reflect the test format and rigor



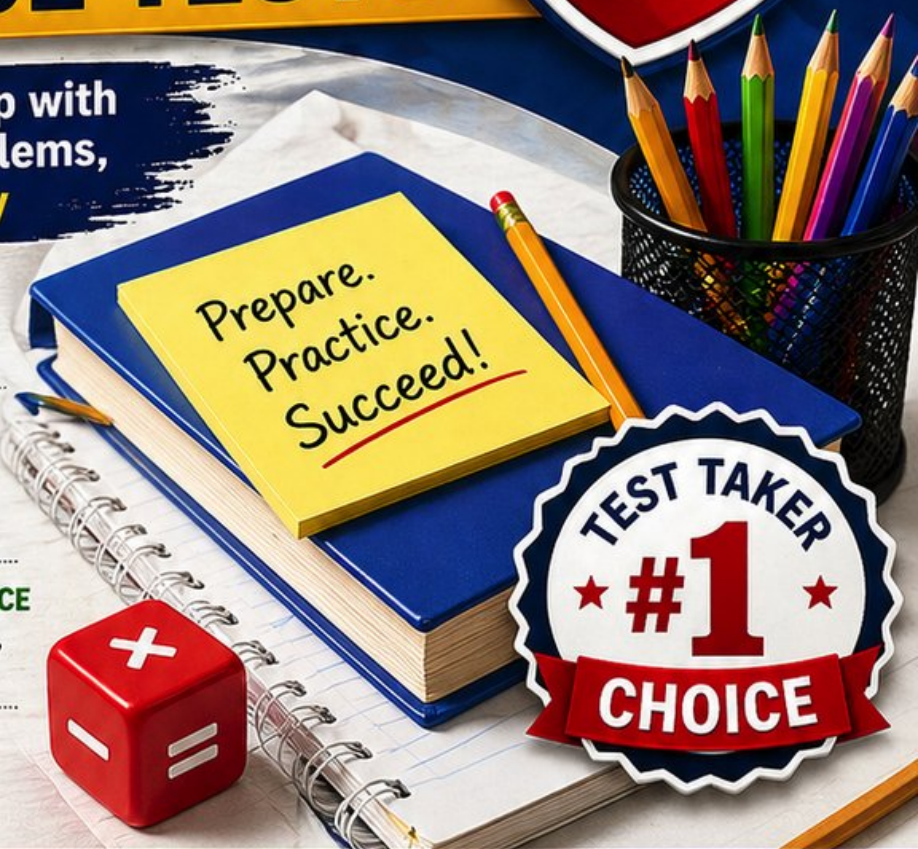
- ✓ **COVERS ALL ESSENTIAL TOPICS**
Numbers & Operations, Fractions, Decimals, Geometry, Measurement, Data & Probability, and more



- ✓ **STRENGTHEN SKILLS & CONFIDENCE**
Mixed review, challenging questions, and strategic practice



- ✓ **FULL ANSWER KEY INCLUDED**
Detailed explanations for every question



**BUILD STRONG
MATH SKILLS
& TEST READINESS**



**IMPROVE ACCURACY,
SPEED, AND
PROBLEM SOLVING**



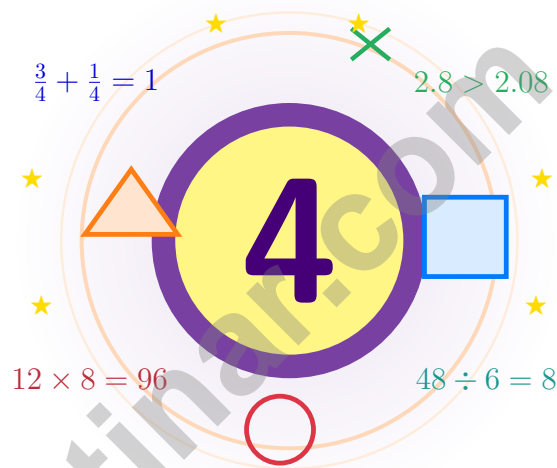
**PERFECT FOR
CLASSROOM,
HOME, OR
SELF-STUDY**



**ALIGNED TO
NEW YORK
STATE STANDARDS
(NYSTP)**

4 New York NYSTP Grade 5 Math Practice Tests

A four-test journey for New York Grade 5 thinkers



Four full tests, a smart quick review, mission-style strategy pages, and student-tested support that help Grade 5 mathematicians from The Empire State build calm, careful, confident habits.

Jay Daie and Reza Nazari



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New York, Your Four-Test Math Journey Begins

Four steady test-day rehearsals, woven into one strong routine

For Every Curious Mind in New York

This book gives you four chances to read closely, solve carefully, and level up your math thinking. Math is a lot like a New York skyline – it grows tall because every floor was framed with care.

You do not need to feel perfect before you begin. You just need to stay curious, use strategies, and learn from every correction. That is how confident mathematicians are built.

Spot Clues

Notice what the problem shows, says, and asks.

Build a Plan

Choose a strategy and work through it step by step.

Bounce Back

Let mistakes show you exactly what to practice next.

A strong mission habit for New York: keep your work neat, estimate when it helps, label units carefully, and never let one hard question decide your mood for the whole page.

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Scan me



Four Tests, Four Lessons

A four-step routine that turns practice into real improvement

Step 1: Power Up

Start with the quick review.

Wake up the big Grade 5 ideas before the test starts so your brain is already warmed up.

Step 2: Take the Test

Work through one full practice test.

Find a calm corner, settle in, and aim for careful, honest choices before quick ones.

Step 3: Decode Mistakes

Check your work honestly.

Circle missed questions, sort out what went sideways, and notice which skills are calling for attention.

Step 4: Bring the Lesson Forward

Repair, reflect, and retry.

Read the explanation, fix the work, and carry that lesson into the very next test.

A Four-Week New York Mission Map

| Week | Mission Focus |
|--------|--|
| Week 1 | Take Test 1 and frame your first floor. |
| Week 2 | Take Test 2 and aim attention at word problems and clear writing. |
| Week 3 | Take Test 3 to polish fractions, decimals, and conversions. |
| Week 4 | Take Test 4 and crown your tower with calm, careful, confident work. |



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Grade 5 Mathematics Reference Materials

PERIMETER AND AREA

Perimeter of Rectangle $P = 2l + 2w$ or $P = 2(l + w)$

Area of Rectangle $A = l \times w$

Area of Triangle $A = \frac{1}{2} \times b \times h$

Volume of Rectangular Prism $V = l \times w \times h$

LENGTH

Customary

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

1 kilometer (km) = 1,000 meters (m)

CAPACITY

Customary

1 cup (c) = 8 fluid ounces (fl oz)

1 pint (pt) = 2 cups (c)

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1 hour (hr) = 60 minutes (min) 1 year = 12 months

1 day = 24 hours (hr) 1 year = 52 weeks



- 1) After multiplying $76 \times 1,000$, the product is 76,000. Which original digit from 76 is in the thousands place?
- A. 6 C. 0
 B. 7 D. Both 7 and 6
- 2) A juice container holds 1.2 liters. An identical container holds 1,200 milliliters. Which container holds more juice?
- A. The first (1.2 L) holds more D. Cannot determine from the
 B. The second (1,200 mL) holds more information
 C. They hold the same amount
- 3) Complex problem: Write the decimal for $1 + \frac{3}{10} + \frac{6}{100}$, then identify all the digits and their place values.
- A. 1.36; 1 in ones, 3 in tenths, 6 in hundredths C. 1.63; 1 in ones, 6 in tenths, 3 in hundredths
 B. 1.306; 1 in ones, 3 in tenths, 0 in hundredths, 6 in thousandths D. 0.136; correct place values
- 4) A rectangular prism can be built with dimensions 2 in. \times 3 in. \times 5 in. or 1 in. \times 6 in. \times 5 in. Which prism has larger volume?

Prism 1

 $2 \times 3 \times 5$ in.

Prism 2

 $1 \times 6 \times 5$ in.

- A. The $2 \times 3 \times 5$ prism C. Both have the same volume
 B. The $1 \times 6 \times 5$ prism D. Cannot compare without seeing them



5) Add: $2.57 + 3.49 = ?$

A. 6.04

C. 6.06

B. 6.05

D. 6.15

6) A student walks 0.6 kilometers to school every day. How far does the student walk in 5 school days?

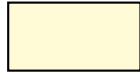
A. 2.5 km

C. 3.0 km

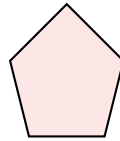
B. 3.5 km

D. 4.0 km

7) Which polygon is regular?



A



B



C



D

A. A

C. C

B. B

D. D

8) Find: $\frac{7}{8} \times \frac{2}{3}$.

Record your answer in the space provided.



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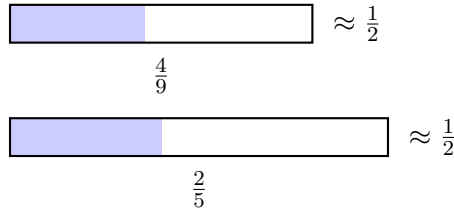
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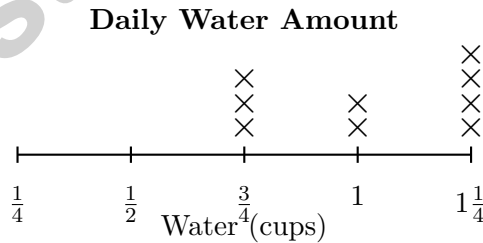
1 day = 24 hours (hr) 1 year = 52 weeks



1) Estimate: $\frac{4}{9} + \frac{2}{5}$.



- A. Close to 0
 - B. Close to $\frac{1}{2}$
 - C. Close to 1
 - D. Close to 2
- 2) What is 0.45×10 ?
- A. 0.045
 - B. 45
 - C. 4.5
 - D. 450
- 3) “Add 14 and 6. Then divide by 4.” Which expression models this?
- A. $14 + 6 \div 4$
 - B. $(14 + 6) \div 4$
 - C. $14 \div 4 + 6$
 - D. $6 \div 4 + 14$
- 4) The line plot shows the amount of water (in cups) plants received daily:



- What is the total amount of water received by the plants that got $\frac{3}{4}$ cup?
- A. $1\frac{1}{2}$ cups
 - B. 4 cups
 - C. 3 cups
 - D. $2\frac{1}{4}$ cups



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1) Which calculation is correct?

A. $5.4 \div 10 = 0.54$

C. $5.4 \div 10 = 54$

B. $5.4 \div 100 = 54$

D. $54 \div 1000 = 0.54$

2) What is $3 \div \frac{1}{6}$?

A. 18

C. 9

B. 12

D. 6

3) During a project, a student completes $\frac{5}{12}$ of the work on Tuesday and $\frac{1}{6}$ on Thursday. How much is complete?

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

C. $\frac{7}{12}$

B. $\frac{1}{2}$

D. $\frac{6}{18}$

4) Which symbol makes this statement true? $7 \times \frac{2}{3}$ 7×1



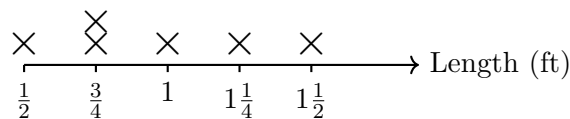
A. Cannot determine

C. >

B. =

D. <

5) The line plot shows lengths of wire pieces, in feet:



What is the total length of the pieces that are at least 1 foot long?

A. $2\frac{1}{4}$ feet

C. $4\frac{1}{4}$ feet

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

D. 5 feet



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Practice Test Answer Keys

How to use this section:

1. check your answer
2. circle missed questions
3. rework them before reading the explanation

Good correction habits build strong scores.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** **(5.NBT.2)** $76 \times 1,000 = 76,000$. In 76,000, the digit 6 is in the thousands place.
- 2) **Choice C is correct.** **(5.MD.1)** Convert 1.2 L to mL: $1.2 \times 1000 = 1200$ mL. Both containers hold 1,200 mL.
- 3) **Choice A is correct.** **(5.NBT.3a)** $1 + \frac{3}{10} + \frac{6}{100} = 1 + 0.3 + 0.06 = 1.36$. The digit 1 is in the ones place, 3 in tenths, 6 in hundredths.
- 4) **Choice C is correct.** **(5.MD.3a)** Prism 1: $2 \times 3 \times 5 = 30$ cu. in. Prism 2: $1 \times 6 \times 5 = 30$ cu. in.
- 5) **Choice C is correct.** **(5.NBT.7)** Hundredths: $7 + 9 = 16$, so write 6 and regroup 1 tenth. Tenths: $5 + 4 + 1 = 10$, so write 0 tenths and regroup 1 one. Ones: $2 + 3 + 1 = 6$. The sum is 6.06.
- 6) **Choice C is correct.** **(5.MD.5)** Choose the operation from the story, then keep the unit with the answer. Multiply: $0.6 \times 5 = 3.0$ kilometers. This confirms the answer.
- 7) **Choice D is correct.** **(5.G.3)** The matching tick marks show that triangle D has 3 equal sides. An equilateral triangle also has 3 equal angles, making it a regular polygon.
- 8) **The correct answer is $\frac{7}{12}$.** **(5.NF.5b)** Multiply across to get $\frac{14}{24}$. Both numbers are divisible by 2, so $\frac{14}{24} = \frac{7}{12}$.
- 9) **The correct answer is 24.** **(5.OA.1)** Left: $50 - 20 = 30$, $30 \div 5 = 6$. Right: $2 + 4 = 6$, $3 \times 6 = 18$. Sum: $6 + 18 = 24$.
- 10) **Choice A is correct.** **(5.NBT.2)** A power of 10 tells how many factors of 10 to use. $25 \times 10^5 = 25 \times 100000 = 2500000$. This confirms the answer.
- 11) **Choice D is correct.** **(5.G.1)** An ordered pair (x, y) shows the location of a point. The x-coordinate (3) tells how far right from the origin, and the y-coordinate (7) tells how far up. The point is at (3, 7).
- 12) **Choice A is correct.** **(5.MD.5a)** $V = 11 \times 3 \times 8 = 33 \times 8 = 264$ ft³.
- 13) **Choice C is correct.** **(5.NF.7b)** $9 \div \frac{1}{3} = 9 \times 3 = 27$. She can cut 27 pieces.
- 14) **Choice B is correct.** **(5.MD.5c)** Work one prism at a time: $6 \times 4 \times 3 = 72$, $4 \times 4 \times 2 = 32$, and $3 \times 3 \times 3 = 27$. Add the non-overlapping volumes: $72 + 32 + 27 = 131$ cubic feet.
- 15) **Choice B is correct.** **(5.NBT.1)** One small square is one thousandth. Ten thousandths make one hundredth, so $10 \times 0.001 = 0.01$.
- 16) **Choice D is correct.** **(5.G.2)** For each point, the second coordinate is 1 more than the first: $0+1=1$, $2+1=3$, $4+1=5$, $6+1=7$.
- 17) **The correct answer is 1.** **(5.NF.6)** $\frac{2}{3} \times \frac{3}{2} = 1$ liter.
- 18) **The correct answer is 450.** **(5.NBT.2)** Move the decimal point three places right: $0.45 \rightarrow 450$.
- 19) **Choice D is correct.** **(5.MD.2)** At 80: 3 marks, At 90: 3 marks, At 100: 2 marks. Total: $3 + 3 + 2 = 8$ students scored 80 or higher.
- 20) **Choice B is correct.** **(5.NF.1)** Subtract: $5 - 2\frac{1}{4} = 2\frac{3}{4}$.
- 21) **Choices A, C are correct.** **(5.OA.2)** B and D do not group 5 + 2 before multiplying.
- 22) **Choice D is correct.** **(5.NF.1)** $9\frac{7}{8} - 4\frac{3}{8} = 5\frac{4}{8} = 5\frac{1}{2}$ ft.
- 23) **Choice B is correct.** **(5.NF.2)** The number line shows the dot positioned at $\frac{2}{5}$ (two-fifths of the way from 0 to 1).
- 24) **Choice B is correct.** **(5.G.4)** The diagram shows a right angle (small square) and two equal sides (tick marks), making it a right isosceles triangle.
- 25) **Choice B is correct.** **(5.NF.5b)** Any positive number multiplied by a factor between 0 and 1 produces a smaller result than the original number.
- 26) **Choice D is correct.** **(5.MD.1)** Total fl oz: $12 \times 32 = 384$ fl oz. Convert to gallons: $384 \div 128 = 3$ gallons.
- 27) **Choice B is correct.** **(5.NBT.7)** Subtract the cost from the starting amount: $25.00 - 10.75 = 14.25$ dollars.
- 28) **Choice B is correct.** **(5.NBT.2)** To get from 51.8 to 0.518, we move the decimal 2 places left, which means dividing by 100.
- 29) **Choice D is correct.** **(5.NF.7c)** The total length is 2, and each jump is one third. So the matching equation is $2 \div \frac{1}{3} = n$.
- 30) **Choice B is correct.** **(5.OA.2)** The shortest bar is half the sum, the middle bar is the sum itself, and the longest bar is double the sum. That gives the order in choice B.



Workshop Notes for an Inventor

Dear Math Inventor,

◇ 4 practice tests. 4 chances to invent new ways of thinking. You tried strategies, broke them, fixed them, and built them stronger. That's what inventors do. That's what you do. ◇

★ **What inventors know:** the first idea isn't always the best one. Sometimes you have to try, fail, learn, and try again. You've practiced that exact loop on every test. That practice is why your problem-solving brain is so flexible now. ★

Inventor's Workshop Inventory

- **Sketch Pad:** FULL of ideas! You can imagine multiple ways to solve.
- **Toolbox:** STOCKED! You have many strategies to draw on.
- **Workbench:** ORGANIZED! Your work is clear and step-by-step.
- **Invention Mindset:** STRONG! You're not afraid to try something new.

Inventor's tip: on test day, if your first idea doesn't work, switch tools. Try a different strategy. Inventors don't get stuck on one tool—they pick the right one for the job. Same on a math test.

If you want to share a proud moment or ask a question, please email me at jay@testinar.com. I'd love to hear from you!

Jay Daie

Your Math Inventor (Build Big Things)

4 COMPLETE TESTS. CONFIDENCE. SUCCESS.



Give your child the practice and confidence they need to excel in **Grade 5 Math**. This book includes **4 full-length** practice tests designed to build skills, improve test readiness, and help students reach their full potential.

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Improve
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& Speed



Master
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