

7

New York

NYSTP

GRADE 5

MATHEMATICS

PRACTICE TESTS

✓
PRACTICE
PREPARE
SUCCEED

★★★

Comprehensive Standards-Aligned
Review for Strong Grade 5
Math Performance



$$\frac{3}{4} + \frac{2}{4} = \frac{5}{4}$$

$$2.4 + 1.6 = 4.0$$

$$A = \frac{bh}{2}$$



**7 FULL-LENGTH
PRACTICE TESTS**

Realistic style
questions



**STANDARDS-
ALIGNED**

Covers all Grade 5
standards



BUILD CONFIDENCE

Target weak areas
and improve
performance



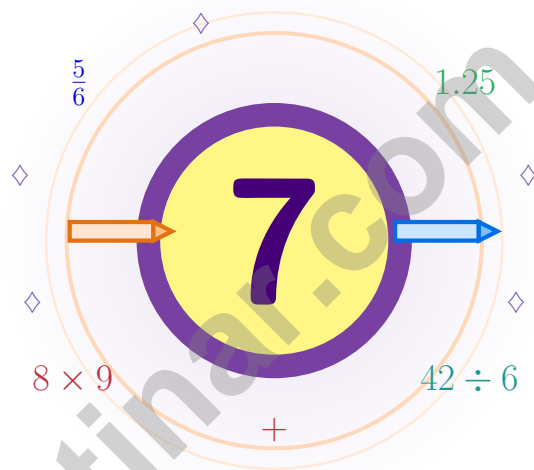
ACHIEVE SUCCESS

Develop skills,
stay prepared,
excel on test day

★ PRACTICE TODAY. PERFORM TOMORROW. **SUCCEED** FOREVER. ★

7 New York NYSTP Grade 5 Math Practice Tests

A seven-step adventure for New York Grade 5 thinkers



Seven full tests, a concise review, and helpful support that turns Grade 5 practice in The Empire State into steady, confident growth from page one to the final check.

Jay Daie and Reza Nazari



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Strap In, New York – Seven-Test Journey

Seven full tests and a coach's voice on every page

New York Mathematicians, Read This First

This practice book is your steady companion for seven tests, not a place to be perfect. Math is a lot like a New York skyline – it grows tall because every floor was framed with care.

Use these seven tests like stepping-stones. Take one test at a time, check your answers honestly, and notice which skills need more attention. Small improvements add up across seven rounds.

Notice

Notice the numbers, units, and any tricky words.

Sketch

Sketch a picture, table, or quick number line.

Confirm

Confirm your answer with an estimate or check.

A strong habit for New York mathematicians: read carefully, estimate when it helps, show your steps, and keep going even when a question feels tricky. That is how steady math confidence is built.

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From Cover to Final Test

A simple routine that turns practice into progress

Step 1: Plan

Plan a quiet hour for one full test.
Spend a few minutes waking up your memory before the test begins.

Step 2: Practice

Take the test with calm focus.
Work in a calm spot and focus on careful thinking before speed.

Step 3: Inspect

Inspect every answer like a careful builder.
Circle missed questions and notice which topics keep showing up.

Step 4: Adjust

Adjust what needs adjusting for the next test.
Read the explanation, repair the work, and bring that lesson into the next test.

A Good 7-Week New York Rhythm

Week 1	Take Test 1 and frame your first floor.
Week 2	Take Test 2 and slow down on word problems.
Week 3	Take Test 3 and lift fraction and decimal work.
Week 4	Take Test 4 and pay close attention to labels and units.
Week 5	Take Test 5 and compare your habits with your first test.
Week 6	Take Test 6 and practice staying calm during tricky questions.
Week 7	Take Test 7 and crown your tower with calm, careful 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)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

Metric

1 liter (L) = 1,000 milliliters (mL)

WEIGHT AND MASS

Customary

1 pound (lb) = 16 ounces (oz)

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TIME

1 minute (min) = 60 seconds (sec) 1 week = 7 days

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

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



1) Which student added correctly?

Student	Work for $4.28 + 2.35$
Maya	$4.28 + 2.35 = 6.53$
Chen	$4.28 + 2.35 = 6.63$
Aisha	$4.28 + 2.35 = 6.73$
Jordan	$4.28 + 2.35 = 6.43$

A. Maya

C. Aisha

B. Chen

D. Jordan

2) Compare the relationship between place values. Which of the following is *true*?

A. Each place value is $\frac{1}{100}$ of the place to its left.

C. Hundredths is 100 times the thousandths place.

B. Ones is 10 times the tenths place.

D. Tenths is $\frac{1}{10}$ of the hundredths place.

3) A river is 280 kilometers long. About how many meters is that?

A. 2,800 m

C. 280,000 m

B. 28,000 m

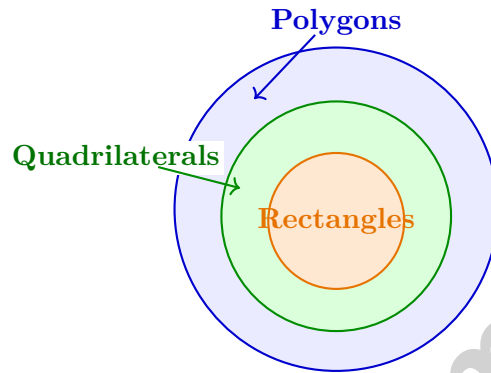
D. 2,800,000 m

4) Write the decimal for “three and forty-seven hundredths”.

Record your answer in the space provided.



- 5) A Venn diagram has a large circle for polygons, a smaller circle for quadrilaterals inside it, and a smaller circle for rectangles inside the quadrilaterals circle. Where should a square be placed?



- A. Inside polygons only
- B. Inside all three circles
- C. Outside all three circles
- D. Inside quadrilaterals only
- 6) A graph of a number pattern passes through $(1, 5)$, $(2, 10)$, $(3, 15)$. The y -value is 5 times the x -value. What ordered pair should be plotted when $x = 4$?

Record your answer in the space provided.



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1) Subtract: $\frac{9}{10} - \frac{1}{5}$

A. $\frac{8}{10}$

B. $\frac{10}{15}$

C. $\frac{7}{10}$

D. $\frac{8}{5}$

2) What is $0.7 \div 10$?

A. 7

B. 0.7

C. 0.07

D. 0.007

3) The model shows 2 wholes, with each whole cut into pieces of size $\frac{1}{4}$. How many pieces of size $\frac{1}{4}$ are there in all?1 whole 1 whole 2 wholes, each cut into pieces of size $\frac{1}{4}$

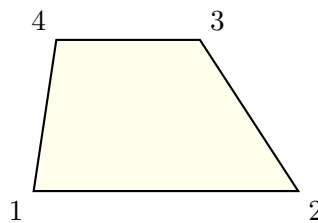
A. 6

B. 4

C. 8

D. 2

4) Look at the shape. How many obtuse angles does it have?



A. 0

B. 1

C. 2

D. 4



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1) A water bottle holds 2.5 liters. After drinking 1.08 liters, how much remains?

A. 1.42 L

C. 1.52 L

B. 1.32 L

D. 1.62 L

2) Find the volume: $L = 12$ cm, $W = 6$ cm, $H = 10$ cm.

Record your answer in the space provided.

3) A gardener has 0.25 kg of seeds in each small packet. If she has 100 packets, how many kilograms of seeds does she have in total? (What is 0.25×100 ?)

A. 2 kg

C. 25 kg

B. 2.5 kg

D. 250 kg

4) What power of 10 makes this sentence true? $6,800 \div \underline{\hspace{1cm}} = 68$

A. 10

C. 1,000

B. 10,000

D. 100

5) What rule defines: 1, 2, 4, 8, 16?

A. Add 1 each time

B. Multiply by 2 each time

C. Multiply by 3 each time

D. Subtract 2 each time



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

- Choice B is correct.** (5.NBT.7) Add by place value: hundredths $8 + 5 = 13$ (write 3, carry 1); tenths $2 + 3 + 1 = 6$; ones $4 + 2 = 6$. The correct sum is 6.63, which matches Chen's work.
- Choice B is correct.** (5.NBT.1) In the decimal system, each place is 10 times the place to its right. So ones (1) = $10 \times$ tenths (0.1).
- Choice C is correct.** (5.MD.1) $1 \text{ km} = 1,000 \text{ m}$. Multiply: $280 \times 1000 = 280,000 \text{ m}$.
- The correct answer is 3.47.** (5.NBT.3a) Read the place value to decide whether the decimal uses tenths, hundredths, or thousandths. Three wholes, then 47 hundredths: 3.47. This confirms the answer.
- Choice B is correct.** (5.G.4) A square is a polygon, a quadrilateral, and a rectangle.
- The correct answer is (4, 20).** (5.G.2) When $x = 4$, multiply by 5 to find the y -value: $4 \times 5 = 20$. The point to plot is (4, 20).
- Choice A is correct.** (5.NF.4b) The overlap region is $\frac{2}{3} \times \frac{3}{4} = \frac{6}{12} = \frac{1}{2}$ of the whole.
- Choice C is correct.** (5.G.2) The first coordinate, 5, matches the x -axis label: weeks. The second coordinate, 25, matches the y -axis label: plant height in inches. So the point means plant height in inches is 25 when weeks is 5.
- Choice C is correct.** (5.NF.6) $\frac{3}{5} \times 50 = \frac{3 \times 50}{5} = \frac{150}{5} = 30$ gallons.
- Choice D is correct.** (5.G.3) Shape D has two pairs of parallel sides, so it is a parallelogram. It does not have four right angles, so it is not a rectangle.
- Choice D is correct.** (5.NF.2) LCD of 12 and 8 is 24. $\frac{7}{12} = \frac{14}{24}$ and $\frac{5}{8} = \frac{15}{24}$. Since $15 > 14$, $\frac{5}{8}$ is longer.
- Choice A is correct.** (5.NF.7c) The question is $8 \div \frac{1}{5}$. Each box makes 5 fifth-box kits, and $8 \times 5 = 40$ kits.
- Choice A is correct.** (5.NBT.2) $45,000 = 4 \times 10^4 + 5 \times 10^3$ since $40,000 = 4 \times 10,000$ and $5,000 = 5 \times 1,000$.
- Choice D is correct.** (5.NF.7c) Each whole contains 8 pieces of size $\frac{1}{8}$. With 1 whole, there are $1 \times 8 = 8$ pieces.
- Choice A is correct.** (5.G.1) In an ordered pair (x, y) , the first number is the x -coordinate. For (6, 4), the x -coordinate is 6.
- Choice C is correct.** (5.NBT.2) $23 \times 10 = 230$. When multiplying by 10, append one zero.
- Choice C is correct.** (5.NBT.2) Multiplying by 1,000 moves the decimal three places right: $0.65 \rightarrow 6.5 \rightarrow 65 \rightarrow 650$.
- Choice C is correct.** (5.OA.2) Difference: $(14 - 5) = 9$; multiply by 8: $8 \times 9 = 72$.
- Choice C is correct.** (5.NBT.3b) 0.07 equals 7 hundredths, not 7 tenths. The other choices all equal 0.7.
- Choice D is correct.** (5.OA.1) Each $(4 + 3)$ equals 7, so $(4 + 3) \times (4 + 3) = 49$. Then $5 \times 49 = 245$, $245 \div 7 = 35$, and $35 + 2 = 37$.
- Choices A, B are correct.** (5.MD.5a) The base area is $5 \times 4 = 20$ square units, and the volume is $20 \times 3 = 60$ cubic units. Nice careful multiplying points to A and B.
- Choice D is correct.** (5.MD.3a) Base: $6 \times 6 = 36$ sq. units per layer. With 3 layers: $36 \times 3 = 108$ cubic units.
- Choice D is correct.** (5.NF.7a) $\frac{1}{3} \div 6 = \frac{1}{3} \times \frac{1}{6} = \frac{1}{18}$.
- Choice A is correct.** (5.NBT.7) $13.07 - 8.95 = 4.12$. Requires borrowing from ones place.
- Choice A is correct.** (5.OA.1) Simplify both groups first: $8 + 2 = 10$ and $6 - 3 = 3$. Multiply to get 30, then subtract 10 to get 20.
- The correct answer is $\frac{7}{10}$.** (5.NF.1) Rewrite $\frac{2}{5} = \frac{4}{10}$. Then $\frac{4}{10} + \frac{3}{10} = \frac{7}{10}$.
- Choice A is correct.** (5.MD.5) The base area is 56 square centimeters. Since $336 \div 56 = 6$, the water is 6 cm deep.
- Choice C is correct.** (5.NF.5b) The rectangle has 15 cells (5 columns \times 3 rows). The shaded overlap region is 4 cells out of 15, so $\frac{4}{15}$.
- Choice C is correct.** (5.MD.1) Total fencing: $180 + 165 + 225 = 570$ meters. Cost: $570 \times 12 = 6,840$ dollars.
- Choice C is correct.** (5.NF.7b) $8 \div \frac{1}{2} = 8 \times 2 = 16$.
- The correct answer is 2.4.** (5.NBT.7) Use place-value reasoning to keep the decimal in the correct place. $96 \div 4 = 24$. Place decimal: 2.4. This confirms the answer.



Strong Finish

Hello, Math Star!

★ Seven practice tests later, you've built real math confidence. Confidence means you can face a problem, stay calm, and keep working until you understand it. ★

◇ **That's what a strong finish looks like:** careful reading, smart strategies, and steady effort from start to end. ◇

Finish Like a Pro

- **Pace yourself:** don't rush the first half.
- **Use scratch work:** write steps clearly.
- **Save time:** leave a few minutes to review.
- **Fix small errors:** check signs, units, and place value.

I'm proud of your effort. Keep that same steady focus on test day.

You can reach me at reza@testinar.com.

Reza Nazari & Jay Daie

Your Math Coaches (Finish Strong)

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PRACTICE TODAY. PERFORM TOMORROW.

Success in math starts with practice! This book provides the **practice, confidence, and skills** your child needs to excel on the Grade 5 Math test and beyond.

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Focus on the most important Grade 5 math skills.



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BUILD CONFIDENCE

Strengthen skills, reduce test anxiety, and boost confidence.



IMPROVE PERFORMANCE

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Develop strong test-taking skills and achieve your best score!

PERFECT FOR:

✓ Classroom Practice

✓ Homework Help

✓ Test Preparation

✓ Summer Learning

✓ On-the-Go Practice

✓
PRACTICE
PREPARE
SUCCEED



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YOUR CHILD

Every step of the way.