

10 COMPLETE

New York

NYSTP

GRADE 5

MATH

PRACTICE TESTS

Standards-Based Review with
Mixed Practice and Detailed Answer Key



10 Complete Practice Tests

Build confidence and test readiness



Standards-Based Review

Covers key Grade 5 math standards



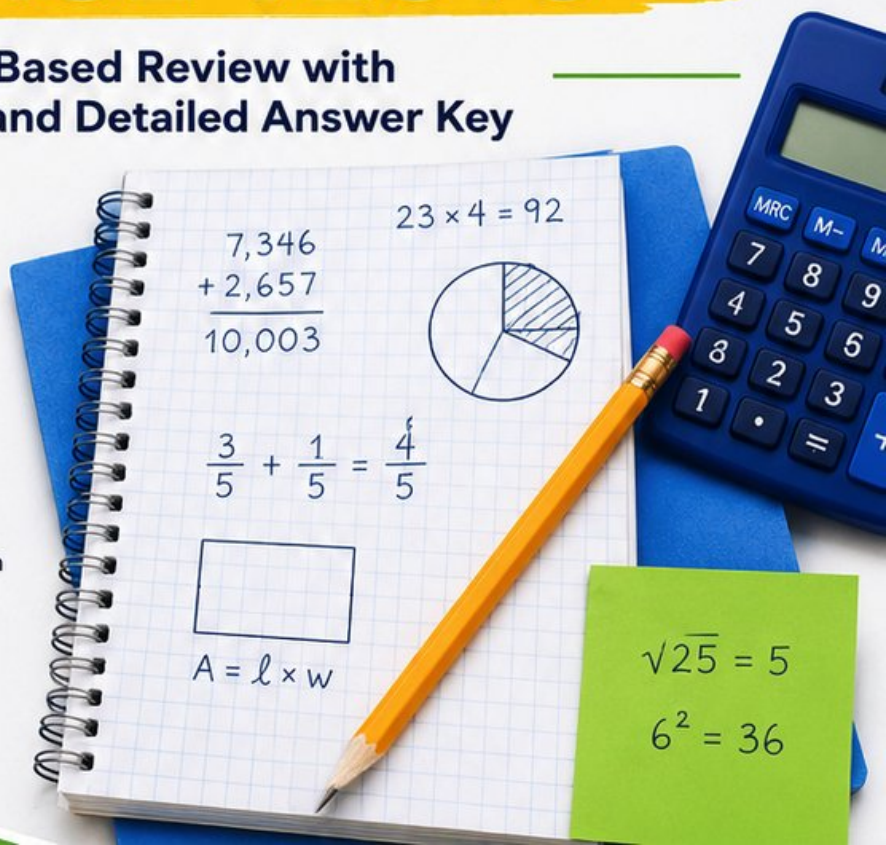
Mixed Practice

Variety of question types to strengthen skills



Detailed Answer Key

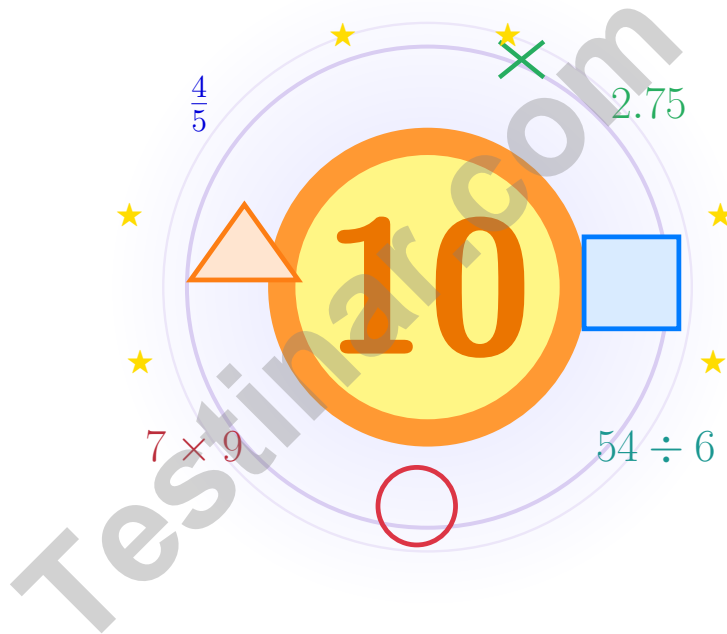
Step-by-step explanations for every question



**PREPARE.
PRACTICE.
SUCCEED!**

10 New York NYSTP Grade 5 Math Practice Tests

Bright review, thoughtful practice, and steady confidence for Grade 5



Ten full tests, a focused quick review, and student-friendly support that keeps practice clear and encouraging.

Jay Daie and Reza Nazari



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Welcome!

This book is a place to practice bravely and think clearly

Dear Grade 5 Mathematician

This book gives you ten chances to read carefully, solve thoughtfully, and build steady math confidence. Some problems will feel friendly right away. Some will take more patience. Both kinds help you grow.

The goal is not to feel perfect before you begin. The goal is to practice honest effort, learn from corrections, and notice how much stronger your thinking becomes over time.

Read

Slow down and understand the task.

Solve

Show clear steps and good choices.

Learn

Use mistakes as clues for what comes next.

A strong habit from the start: keep your work neat, estimate when it helps, write units carefully, and do not let one hard problem decide your mood for the whole page.



How to Use This Book

A simple routine that turns practice into real progress

Step 1

Warm up with the quick review.

Spend a few minutes refreshing the ideas before the test begins.

Step 2

Take one full practice test.

Work in a calm spot and aim for careful thinking before speed.

Step 3

Check your work honestly.

Circle missed questions and notice which skills need another look.

Step 4

Fix and reflect.

Read the explanation, repair the work, and bring that lesson into the next test.



A Good 10-Week Rhythm

Week 1	Take Test 1 and notice your starting strengths.
Week 2	Take Test 2 and slow down on word problems.
Week 3	Take Test 3 and sharpen multiplication and division checks.
Week 4	Take Test 4 and focus on fractions and decimals.
Week 5	Take Test 5 and watch your labels and units closely.
Week 6	Take Test 6 and practice calmer pacing.
Week 7	Take Test 7 and compare your habits with the earlier weeks.
Week 8	Take Test 8 and focus on tidy, checkable work.
Week 9	Take Test 9 and compare your progress with the way you worked in the earlier weeks.
Week 10	Take Test 10 and finish with steady, confident effort while using every strong habit you built.



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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)

Metric

1 kilogram (kg) = 1,000 grams (g)

1 gram (g) = 1,000 milligrams (mg)

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



6) What is 3.6×2.4 ?

A. 8.64

C. 9.44

B. 8.84

D. 9.64

7) A recipe makes 8 cups of soup. Maya wants to make $\frac{3}{4}$ of the recipe. How many cups of soup will she make?

Record your answer in the space provided.

8) Multiply: $\frac{3}{5} \times \frac{5}{6}$

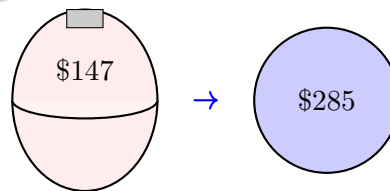
A. $\frac{1}{2}$

C. $\frac{8}{11}$

B. $\frac{3}{11}$

D. $\frac{8}{30}$

9) Marcus is saving money to buy a bicycle that costs \$285. He already has \$147. His grandmother gives him \$25 each week for doing chores. If Marcus also earns \$12 from selling lemonade every weekend, how many weeks will it take him to have enough money to buy the bicycle?



Current Savings Bicycle Cost

A. 3 weeks

C. 5 weeks

B. 4 weeks

D. 6 weeks



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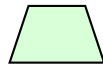
1) Which statement is false?



Square



Rhombus



Trapezoid



Kite



Pentagon

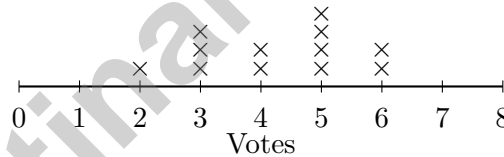
- A. A square is a rhombus. C. A pentagon is a quadrilateral.
 B. A rhombus is a parallelogram. D. A kite has 2 pairs of equal sides.

2) A runner completes a race that is 4 kilometers long in 28 minutes. A cyclist completes it in 12 minutes. What is the time difference in seconds?

- A. 16 seconds C. 960 seconds
 B. 160 seconds D. 1,680 seconds

3) The line plot displays favorite ice cream flavors (number of votes):

Ice Cream Flavor Votes



Which vote count appears most often?

- A. 3 C. 5
 B. 4 D. 6

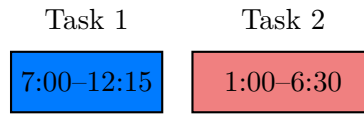
4) Compare without calculating: $(82 - 32) \times 5$ $(82 - 32)$

- A. > C. =
 B. < D. Cannot tell



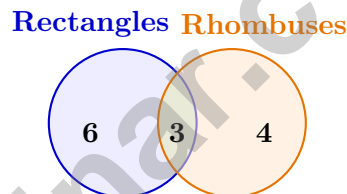
- 39) A construction crew works on two tasks: Task 1: 7:00 AM to 12:15 PM Task 2: 1:00 PM to 6:30 PM

How many total hours and minutes worked that day?



Total: ?

- A. 10 hours
 B. 10 hours 45 minutes
 C. 11 hours
 D. 11 hours 15 minutes
- 40) A Venn diagram has one circle for rectangles and one circle for rhombuses. There are 6 rectangles only, 4 rhombuses only, and 3 squares in the intersection. How many figures are rectangles?



- A. 3
 B. 13
 C. 10
 D. 9

End of Practice Test

Nice work. Pause, breathe, and check your answers with care.



Grade 5 Mathematics

10

Questions: 40 Duration: No time limit

Calculator Policy: Calculators are not allowed



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 B is correct.** **(5.MD.5a)** Prism 1: $48 \times 6 = 288 \text{ cm}^3$. Prism 2: $48 \times 4 = 192 \text{ cm}^3$. Difference: $288 - 192 = 96 \text{ cm}^3$.
- 2) **The correct answer is $3\frac{1}{3}$.** **(5.NF.4)** Five copies of $\frac{2}{3}$ give $\frac{10}{3}$. Three thirds make each whole, so $\frac{10}{3} = 3\frac{1}{3}$.
- 3) **Choice B is correct.** **(5.NBT.2)** $32 \times 10^5 = 32 \times 100,000 = 3,200,000$ cells.
- 4) **Choice D is correct.** **(5.NF.5b)** $18 \times \frac{2}{3} = 12$ feet. Multiplying by $\frac{2}{3}$ (less than 1) scales the length down by one-third.
- 5) **Choice B is correct.** **(5.NBT.2)** Divide pennies by 100 to convert to dollars: $8,400 \div 100 = 84$. So Carla has \$84.
- 6) **Choice A is correct.** **(5.NBT.7)** Multiply as if the numbers were whole numbers: $36 \times 24 = 864$. The factors 3.6 and 2.4 have a total of $1 + 1 = 2$ decimal places, so place the decimal point two places from the right: $864 \rightarrow 8.64$. Therefore, $3.6 \times 2.4 = 8.64$.
- 7) **The correct answer is 6.** **(5.NF.6)** The question asks for $\frac{3}{4}$ of 8 cups, so multiply: $\frac{3}{4} \times 8 = 6$. The answer is 6 cups.
- 8) **Choice A is correct.** **(5.NF.5b)** $\frac{3}{5} \times \frac{5}{6} = \frac{15}{30}$, which simplifies to $\frac{1}{2}$.
- 9) **Choice B is correct.** **(5.MD.5)** Marcus needs $285 - 147 = 138$ additional dollars. Each week he earns $\$25 + \$12 = \$37$. Dividing: $138 \div 37 \approx 3.73$, so he needs 4 full weeks. Check: $147 + 4 \times 37 = 295 \geq 285$.
- 10) **Choice B is correct.** **(5.NBT.2)** The known product $8 \times 5 = 40$ already has one zero. The factor 800 adds two more zeros, giving 4,000.
- 11) **Choice A is correct.** **(5.NBT.7)** Add: $1 + 1.8 = 2.8$; then $2.8 + 1.25 = 4.05$ (hundredths: $0 + 5 = 5$; tenths: $8 + 2 = 10$, regroup; ones: $2 + 1 + 1 = 4$).
- 12) **Choice D is correct.** **(5.NF.7c)** Each whole contains 2 pieces of size $\frac{1}{2}$. With 5 wholes, there are $5 \times 2 = 10$ pieces.
- 13) **Choice C is correct.** **(5.NF.1)** $\text{LCM}(2,3) = 6$. $\frac{1}{2} = \frac{3}{6}$ and $\frac{1}{3} = \frac{2}{6}$. $\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$.
- 14) **Choice C is correct.** **(5.NBT.3a)** Maya ignored the 0 in the tenths place. The correct reading is “three and nine hundredths”, not “three and nine tenths”.
- 15) **Choice A is correct.** **(5.NBT.3b)** 0.6 (6 tenths) $>$ 0.06 (6 hundredths). A rise of 0.6 degrees is 10 times larger.
- 16) **Choice A is correct.** **(5.NF.5b)** Both expressions multiply 16 by a fraction with denominator 4. Since $\frac{5}{4} >$ $\frac{3}{4}$, $\frac{5}{4} \times 16$ has the larger value.
- 17) **Choice A is correct.** **(5.NF.7a)** When you divide a unit fraction by a whole number, multiply by the reciprocal: $\frac{1}{3} \div 4 = \frac{1}{3} \times \frac{1}{4} = \frac{1}{12}$.
- 18) **Choice C is correct.** **(5.NBT.4)** Compare distances from 0.5: 0.45 is 0.05 away, 0.489 is 0.011 away, 0.501 is 0.001 away, and 0.55 is 0.05 away. The closest number is 0.501.
- 19) **Choices A, B are correct.** **(5.G.2)** A point with y-coordinate 0 is on the x-axis, so (5, 0) is on the x-axis. A point with x-coordinate 0 is on the y-axis, so (0, 7) is on the y-axis.
- 20) **Choice D is correct.** **(5.MD.1)** Convert 2 kg to grams: $2 \times 1000 = 2000$ g. Add 500 g: $2000 + 500 = 2500$ g.
- 21) **Choice A is correct.** **(5.OA.3)** 24 cookies for 2 batches means 12 cookies per batch, so multiply the number of batches by 12.
- 22) **Choice B is correct.** **(5.MD.2)** There are 2 X marks above $\frac{1}{4}$, so the total is $\frac{1}{4} + \frac{1}{4} = \frac{1}{2}$ cup.
- 23) **Choice D is correct.** **(5.OA.3)** Rule: double and add 1. $23 \times 2 + 1 = 47$.
- 24) **Choice A is correct.** **(5.NF.4b)** The smaller drawing covers $\frac{4}{5} \times \frac{1}{2} = \frac{4}{10}$ of a full sheet. In simplest form, $\frac{4}{10} = \frac{2}{5}$.
- 25) **Choice A is correct.** **(5.NF.7c)** Each gallon fills 2 half-gallon containers. $8 \div \frac{1}{2} = 16$ containers.
- 26) **Choice A is correct.** **(5.NF.7b)** $7 \div \frac{1}{4} = 7 \times 4 = 28$.
- 27) **The correct answer is 3 sides.** **(5.G.3)** An equilateral triangle has 3 equal sides and 3 vertices. A square has 4 sides and 4 vertices, so the number of sides or vertices tells the shapes apart.
- 28) **Choice C is correct.** **(5.G.1)** The origin is located at (0, 0), where both coordinates are zero.
- 29) **Choice C is correct.** **(5.MD.1)** 5 lengths: $5 \times 15 = 75$ meters. 3 widths: $3 \times 8 = 24$ meters. Total: $75 + 24 = 99$ meters. Convert: $99 \times 100 = 9,900$ centimeters.



Authors' Notes

From a Friend Who Believes in You

Hi, Brilliant Friend!

◇ I have to tell you something important: I am proud of you. You completed 10 full practice tests. That takes time, focus, and heart. Many students never push themselves like that. You did. That tells me everything about your work ethic. ◇

★ **Here's a friendly reminder:** a test does not measure your worth. It measures one slice of your skills on one day. You are much more than a score. The work you put in to grow—that is the real win. ★

Things I Want You to Remember

- **You are capable.** Every test you finished proves it.
- **You are resilient.** You worked through hard problems.
- **You are growing.** Every mistake taught you something new.
- **You are ready.** The skills are inside you.

One last thing: when you sit down on test day, take a deep breath, smile a tiny smile, and remember that someone (me!) believes in you. You've got this.

If you'd like to share your experience or have questions, please email me at reza@testinar.com. I'd love to hear from you!

Reza Nazari & Jay Daie

Your Math Friend (Always in Your Corner)

PRACTICE TODAY. MASTER TOMORROW.

Give your child the confidence to excel in **Grade 5 Math!**
This book includes **10 complete practice tests** designed to build strong skills, improve test readiness, and achieve success.



10

COMPLETE PRACTICE TESTS

- ✓ Realistic. Rigorous.
- ✓ Results-Driven.

More practice today for a **stronger** tomorrow.

THIS BOOK HELPS YOUR CHILD:



Build Confidence

Familiar, focused practice reduces anxiety and boosts self-belief.



Strengthen Skills

Reinforces key math concepts through high-quality, standards-aligned questions.



Improve Test Readiness

Full-length tests help students understand test format, pacing, and question types.



Track Progress

Identify strengths and target areas with purposeful practice.



Achieve Success

Better preparation leads to higher scores and bright futures.

COVERS ALL ESSENTIAL TOPICS

- ✓ Whole Numbers & Operations
- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Graphing & Data Analysis
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ And More!



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