



6

Delaware DeSSA

GRADE 5 MATH

PRACTICE TESTS

Complete Standards-Based Practice
— for Grade 5 Math Success —



$$5^2 = 25$$



6 FULL-LENGTH PRACTICE TESTS
Realistic style questions



STANDARDS-BASED PRACTICE
Covers all Grade 5 Math standards

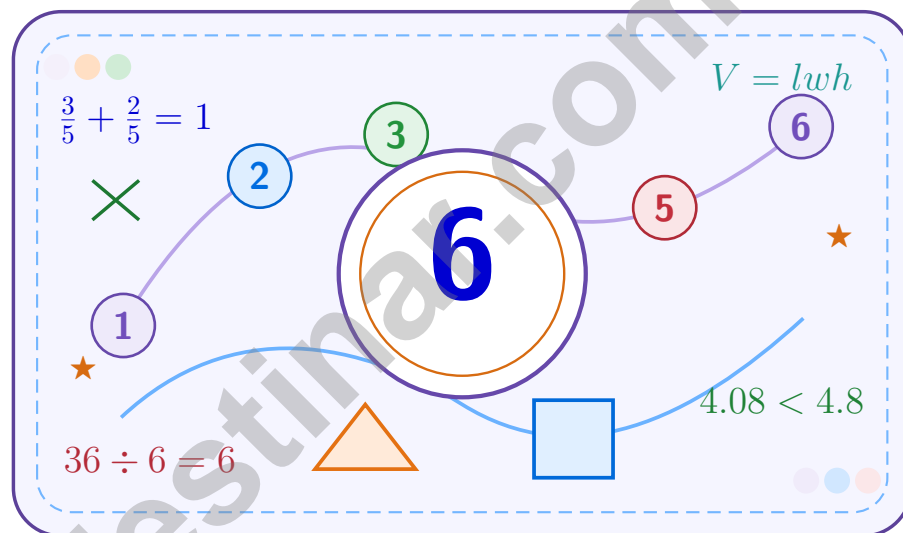


BUILD CONFIDENCE. IMPROVE SCORES.
Target weak areas and achieve success

★ STRONG PRACTICE. BRIGHT FUTURE. ★

6 Delaware Smarter Balanced Grade 5 Math Practice Tests

A six-step confidence climb with clear review, smart strategy, and practice that gets stronger every round



Six full tests, a focused skill booster, and student-friendly support from start to finish for Grade 5 mathematicians who want to climb higher.

Jay Daie and Reza Nazari



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Welcome to the Confidence Climb

This book is here to help you practice with purpose and rise step by step

To the Grade 5 Mathematician

This practice book is a place to think, try, fix, and grow. You do not have to be perfect on the first question or the first test. What matters most is careful effort, clear work, and learning from each round of practice.

Use these six 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 fast.

Try

Give each problem your best thinking.

Check

Study mistakes and learn what happened.

Rise

Bring that lesson into the next round.

A strong habit for every page: 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.

How to Use This Book

A simple practice routine that turns six tests into steady growth

Step 1: Warm Up

Start with the quick review.
Spend a few minutes refreshing the ideas before you start a test.

Step 2: Take the Test

Take one full practice test.
Work in a quiet space and let accuracy matter more than speed.

Step 3: Study the Pattern

Check your work honestly.
Circle missed questions and notice patterns in the mistakes.

Step 4: Learn, Then Retry

Read the explanation and try again.
Learning happens after the test too. Fixing mistakes is one of the smartest parts of practice.

A Six-Week Climb Map

Week	Mission Focus
Week 1	Take Test 1 and review any place-value or operation slips.
Week 2	Take Test 2 and focus on showing neat, easy-to-read work.
Week 3	Take Test 3 and give extra time to fractions or decimals if needed.
Week 4	Take Test 4 and slow down on word problems and units.
Week 5	Take Test 5 and compare your score and habits with earlier rounds.
Week 6	Take Test 6 and finish with calm, careful, confident work that uses everything you practiced before.



Scan me

Test Overview

What this practice book helps students do

These practice tests are designed to help Grade 5 students get comfortable with the kind of thinking used on the Delaware Smarter Balanced. The goal is bigger than only getting answers right. Students are practicing how to read closely, choose a strategy, solve carefully, and explain their work when needed.

Selected-Response Questions

Students solve the problem and choose the best answer. Estimating first and crossing out weak choices can save time and points.

Constructed-Response Questions

Students show their thinking, steps, models, or explanations. Even when unsure, writing what they know can help organize the problem.

Grade 5 Skills You Will Practice Often

- place value, comparing numbers, and rounding
- multi-digit addition, subtraction, multiplication, and division
- fractions, decimals, and mixed numbers
- perimeter, area, volume, and measurement conversions
- coordinate points, patterns, graphs, and tables
- geometry and multi-step word problems

What strong work looks like: the answer is correct, the steps are clear, the labels or units are included, and the final result makes sense.



Table of Contents

★ Practice Test 1	_____	16
★ Practice Test 2	_____	31
★ Practice Test 3	_____	46
★ Practice Test 4	_____	61
★ Practice Test 5	_____	76
★ Practice Test 6	_____	91
Practice Test Answer Keys	_____	107
Practice Test Answers and Explanations	_____	111

Grade 5 Mathematics

1

Questions: 40 Duration: No time limit

Calculator Policy: Calculators are not allowed



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

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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



- 1) Pattern A: 1, 2, 3, 4, 5. Pattern B: 2, 4, 6, 8, 10. What is the relationship between the values in Pattern A and Pattern B?
- A. Pattern B is 1 more than Pattern A C. Pattern B is 3 times Pattern A
 B. Pattern B is 1 less than Pattern A D. Pattern B is 2 times Pattern A
- 2) What is 5.6×1.5 ?
- A. 8.1 C. 8.4
 B. 8.3 D. 9.1
- 3) A baker found that rounding $7\frac{3}{11}$ to 7 and $2\frac{9}{10}$ to 3 gave an estimate of 10 for their sum. Is the estimate within 0.5 of the true sum?
- A. Yes, it equals the exact sum C. No, it is off by more than 0.5
 B. Yes, it is within 0.5 D. Cannot determine from the estimate
- 4) A student computes 23×10 and gets 230. She then says it has 2 zeros. Is she right?
- A. Yes; 230 has 2 zeros. C. No; 230 has 3 zeros.
 B. No; 230 has 1 zero. D. No; 230 has 0 zeros.
- 5) Find the difference: $4\frac{1}{2} - 1\frac{1}{4}$.

Record your answer in the space provided.



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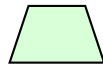
1) Which statement is false?



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) Triangle P has side lengths 6 cm, 6 cm, and 8 cm. Classify Triangle P by its sides.

Record your answer in the space provided.

3) A paint can is $\frac{5}{6}$ full. If $\frac{2}{6}$ is used to paint a door, how much paint remains?

- A. $\frac{1}{6}$ C. $\frac{1}{2}$
 B. $\frac{2}{6}$ D. $\frac{7}{6}$

4) Compare: $5 \times (40 + 60)$ $(5 \times 40) + (5 \times 60)$

- A. $>$ C. $=$
 B. $<$ D. Not enough info

5) Find 7×10^2 .

Record your answer in the space provided.



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1) What is $3.87 + 4.92$?

A. 7.79

C. 8.69

B. 8.79

D. 9.79

2) A triangle has two sides of 9 cm each and one side of 5 cm. Is this triangle scalene, isosceles, or equilateral?

A. Scalene

C. Equilateral

B. Isosceles

D. Right

3) If $n \times 10^2 = 4600$, what is n ?

A. 4.6

C. 460

B. 46

D. 0.46

4) Compare $12 \times \frac{2}{4}$ to $12 \times \frac{1}{2}$. Which is correct?

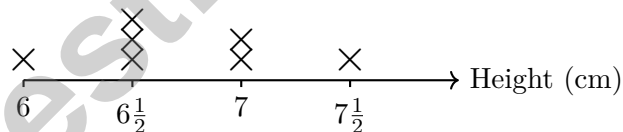
A. $12 \times \frac{2}{4} <$ the other

C. $12 \times \frac{2}{4} >$ the other

B. Cannot be determined

D. $12 \times \frac{2}{4} =$ the other

5) A line plot shows plant heights in centimeters:



What is the total height of all the plants?

Record your answer in the space provided.



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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

- Choice D is correct.** **(5.OA.B.3)** For each position, Pattern B equals 2 times the value in Pattern A. For example, when Pattern A is 3, Pattern B is 6.
- Choice C is correct.** **(5.NBT.B.7)** Multiply: $56 \times 15 = 840$, then place decimal two places from right: $8.40 = 8.4$.
- Choice B is correct.** **(5.NF.A.2)** True values: $7\frac{3}{11} + 2\frac{9}{10} \approx 7.27 + 2.90 = 10.17$. Estimate is 10. Difference: $0.17 < 0.5$. Close enough.
- Choice B is correct.** **(5.NBT.A.2)** She found the product correctly, but counted the zeros incorrectly. The number 230 ends with exactly one zero.
- The correct answer is $3\frac{1}{4}$.** **(5.NF.A.1)** Rewrite $4\frac{1}{2} = 4\frac{2}{4}$. Subtract: $(4 - 1) + (\frac{2}{4} - \frac{1}{4}) = 3\frac{1}{4}$.
- Choice D is correct.** **(5.NF.B.7c)** $8 \div \frac{1}{4} = 8 \times 4 = 32$. She can water 32 plants.
- Choice B is correct.** **(5.G.B.4)** A rhombus is a quadrilateral with all sides equal. If opposite angles are also equal, it is a rhombus (not necessarily a square).
- Choice C is correct.** **(5.NBT.A.2)** $12.5 \div 100 = 0.125$ and $125 \div 1000 = 0.125$. Both quotients are equal.
- Choice C is correct.** **(5.NBT.A.2)** The diagram shows the decimal moving two places right, which is what multiplying by 100 does. So 7.52 becomes 752.
- Choice B is correct.** **(5.MD.C.5a)** Prism B has volume $7 \times 4 \times 4 = 112$ cubic units, which is the greatest.
- Choice D is correct.** **(5.NBT.A.2)** A: $10 \times 5.3 = 53$ (false). B: $100 \times 5.3 = 530$ (true). C: $1000 \times 0.53 = 530$ (false). D: $10 \times 0.053 = 0.53$ (false).
- The correct answer is 23.** **(5.OA.B.3)** The terms are 7, 11, 15, 19, 23, so the 5th term is 23. A complete response explains that the pattern adds 4 each step.
- Choice D is correct.** **(5.MD.C.5c)** Work one prism at a time: $8 \times 3 \times 5 = 120$, $6 \times 2 \times 4 = 48$, and $5 \times 2 \times 1 = 10$. Add the non-overlapping volumes: $120 + 48 + 10 = 178$ cubic centimeters.
- Choice A is correct.** **(5.NBT.A.3b)** All ones digits are equal. Compare tenths and hundredths: $1.22 > 1.21 > 1.20 > 1.02$, and 1.2 has the same value as 1.20.
- The correct answer is 2.** **(5.G.A.2)** For each point, $2 \div 1 = 2$, $4 \div 2 = 2$, and $6 \div 3 = 2$.
- Choice D is correct.** **(5.MD.C.4)** The base has $3 \times 5 = 15$ cubes. Since $60 \div 15 = 4$, the prism has 4 layers, so the height is 4 units.
- Choice C is correct.** **(5.MD.B.2)** The marks show 3 boards at $\frac{1}{2}$ ft, 2 boards at $1\frac{1}{2}$ ft, 3 boards at $2\frac{1}{2}$ ft, and 1 board at 3 ft. Total: $(\frac{1}{2} \times 3) + (1\frac{1}{2} \times 2) + (2\frac{1}{2} \times 3) + (3 \times 1) = 1\frac{1}{2} + 3 + 7\frac{1}{2} + 3 = 15$ feet.
- Choice B is correct.** **(5.NBT.A.2)** Dividing by a power of 10 shifts the value to a smaller place. $7,200 \div 100 = 72$. This confirms the answer.
- Choices A, B are correct.** **(5.MD.A.1)** A is correct: 1 m = 100 cm. B is correct: 1 km = 1,000 m. C is incorrect: 1 L = 1,000 mL (not 10). D is incorrect: 1 kg = 1,000 g (the relationship is reversed).
- The correct answer is 4.** **(5.G.B.3)** All four angles of a rectangle are right angles.
- Choice D is correct.** **(5.G.A.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).
- Choice B is correct.** **(5.G.A.2)** Each output is 4 times the input: $4 \times 6 = 24$.
- Choice B is correct.** **(5.OA.A.2)** To make $15 \div 3$ six times as large, multiply that entire expression by 6. Parentheses keep the original expression grouped.
- Choice A is correct.** **(5.NF.B.7c)** This is a count of half-pound groups in 1 pound: $1 \div \frac{1}{2} = 2$ groups.
- Choice C is correct.** **(5.NF.B.6)** $\frac{3}{5} \times 50 = \frac{3 \times 50}{5} = \frac{150}{5} = 30$ gallons.
- Choice C is correct.** **(5.NF.A.1)** $\text{LCM}(8, 12) = 24$. $\frac{3}{8} = \frac{9}{24}$ and $\frac{5}{12} = \frac{10}{24}$. $\frac{9}{24} + \frac{10}{24} = \frac{19}{24}$ liter.
- Choice D is correct.** **(5.G.A.2)** The first coordinate, 10, matches the x-axis label: hours. The second coordinate, 200, matches the y-axis label: bricks laid. So the point means bricks laid is 200 when hours is 10.
- Choice C is correct.** **(5.NBT.B.7)** Add from right to left: hundredths $6 + 7 = 13$, so write 3 hundredths and regroup 1 tenth. Tenths: $2 + 1 + 1 = 4$. Ones: $4 + 3 = 7$. So the sum is 7.43.



Laboratory Research Summary

Greetings, Research Scientist!

★ Exceptional research completed! You've conducted six comprehensive mathematical experiments, collecting data, analyzing results, and drawing accurate conclusions like a professional scientist! Each test represented a controlled experiment where you tested your hypotheses, recorded observations, and refined your methodologies. Your scientific approach to problem-solving has developed remarkably! ★

◇ **Here's what accomplished scientists understand:** research requires careful observation, precise measurement, and systematic analysis. They document their procedures so they can replicate successful experiments. You've developed those same scientific practices through these six tests! You've documented (mentally) which strategies work best, and now you can replicate that success on test day! ◇

Research Laboratory Findings

- **Hypothesis Testing:** You systematically evaluate which approaches work best!
- **Data Analysis:** You examine information carefully before drawing conclusions!
- **Experimental Control:** You maintain focus and accuracy throughout testing!
- **Research Complete:** Your findings confirm readiness for test day experimentation!

Remember this scientific principle: careful scientists verify their results before publishing findings. On test day, apply that same careful verification to your work. Double-check your calculations, confirm your answers make sense, and submit your best work. You've practiced the scientific method six times; trust your research skills!

Want to publish your mathematical research findings or discuss an interesting problem-solving hypothesis? Submit your papers to reza@testinar.com. The journal awaits your contributions!

Reza Nazari & Jay Daie

Your Math Coaches for Careful Reading

6 FULL-LENGTH TESTS. ENDLESS POTENTIAL.

PRACTICE TODAY. SUCCEED TOMORROW.

Give your child the tools they need to build strong math skills and test-taking confidence! This book includes **6 full-length practice tests** along with standards-based practice, mixed review, word problems, and a complete answer key.

★★★
PRACTICE
WITH PURPOSE.
ACHIEVE WITH
CONFIDENCE.

WHAT'S INSIDE:



6 FULL-LENGTH PRACTICE TESTS

Realistic tests designed to reflect the actual test format and help build confidence.



STANDARDS-BASED PRACTICE

Covers all essential Grade 5 math standards with clear explanations and examples.



MIXED REVIEW

Reinforces key concepts with a variety of question types and review exercises.



WORD PROBLEMS

Build critical thinking and problem-solving skills with real-world scenarios.



COMPLETE ANSWER KEY

Step-by-step explanations for every question to support learning and growth.



IMPROVE. PRACTICE. ACHIEVE.

Consistent practice leads to stronger skills, higher scores, and greater success.



WHY PRACTICE MAKES A DIFFERENCE



BUILD CONFIDENCE

Feel prepared and ready for any challenge.



IMPROVE ACCURACY

Strengthen skills and reduce careless mistakes.



THINK STRATEGICALLY

Develop problem-solving skills and deepen understanding.



MANAGE TIME

Practice under timed conditions to build stamina.



STAY MOTIVATED

Track progress and celebrate every win.



ACHIEVE SUCCESS

Reach goals and unlock your full potential!



Visit testinar.com/math5

for more Grade 5 math resources and practice materials!



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Smart Practice. Stronger Results.