

7

Delaware

DeSSA

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



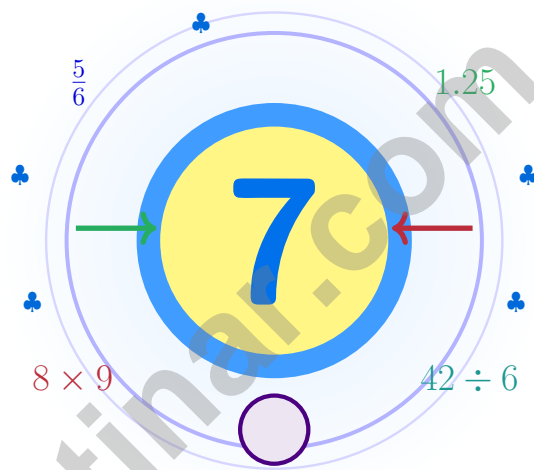
ACHIEVE SUCCESS

Develop skills,
stay prepared,
excel on test day

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

7 Delaware Smarter Balanced Grade 5 Math Practice Tests

Seven full tests, seven lessons, one stronger mathematician



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

Jay Daie and Reza Nazari



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Open the Trail, Delaware

Seven practice tests woven into one calm routine

Welcome Letter for Delaware Math Trail Crew

This practice book is your steady companion for seven tests, not a place to be perfect. Math grows the way a seedling grows in Delaware soil – a little water, a little sunlight, and steady, patient root work.

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.

Read

Read every word twice and underline what is asked.

Solve

Choose the cleanest method and show your steps.

Reflect

Look back to find what worked and what to fix.

A strong habit for Delaware 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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A Map of the Pages

A simple routine that turns practice into progress

Step 1: Power Up

Sharpen your math brain with the quick review.

Spend a few minutes waking up your memory before the test begins.

Step 2: Trail Run

Take a full practice test in a quiet spot.

Work in a calm spot and focus on careful thinking before speed.

Step 3: Debrief

Score honestly and circle missed questions.

Circle missed questions and notice which topics keep showing up.

Step 4: Repair

Fix the missed work and lock the lesson in.

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

A Good 7-Week Delaware Rhythm

Week 1	Take Test 1 like a calm shoreline morning.
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 with steady, 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	Metric
1 foot (ft) = 12 inches (in.)	1 meter (m) = 100 centimeters (cm)
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- 1) An aquarium has dimensions 24 inches long, 18 inches wide, and 20 inches high. What is its volume?
- A. 4,320 cubic inches C. 8,640 cubic inches
 B. 6,480 cubic inches D. 9,600 cubic inches
- 2) Which expression is greater: $4 \times (15 + 7)$ or $4 \times 15 + 7$?
- A. $4 \times (15 + 7)$ C. The expressions are equal.
 B. $4 \times 15 + 7$ D. Cannot be determined.
- 3) A fabric project uses $\frac{5}{6}$ yard of blue cloth. Red cloth needed is $\frac{1}{3}$ yard. How much total cloth?
- A. $\frac{4}{6}$ yard C. $\frac{6}{9}$ yard
 B. $\frac{7}{6}$ yards D. $\frac{2}{3}$ yard
- 4) Students have $\frac{5}{6}$ of a pizza left. They eat $\frac{2}{3}$ of that amount. What fraction of the whole pizza do they eat?
- A. $\frac{10}{18}$ C. $\frac{3}{8}$
 B. $\frac{5}{18}$ D. $\frac{7}{9}$
- 5) Find: 6×10^4 .

Record your answer in the space provided.



6) Add and write the sum in simplest form: $\frac{4}{10} + \frac{1}{3}$

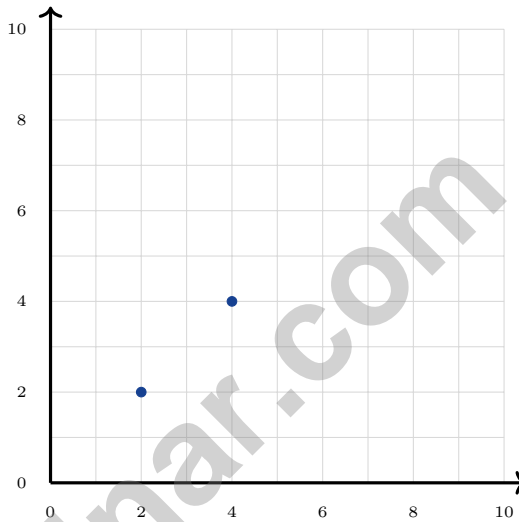
A. $\frac{5}{13}$

B. $\frac{11}{15}$

C. $\frac{22}{15}$

D. $\frac{4}{30}$

7) A pattern starts with (2, 2). Each subsequent point adds 2 to both coordinates. What is the fourth point?



A. (10, 10)

B. (4, 4)

C. (6, 6)

D. (8, 8)

8) A fish tank is 18 cubic inches. Which dimensions could match?

A. $2 \times 3 \times 2$

B. $2 \times 3 \times 3$

C. $3 \times 3 \times 1$

D. $2 \times 2 \times 5$

9) Order these from least to greatest: $\frac{1}{2} \times 10$, 1×10 , $\frac{3}{2} \times 10$.

A. $\frac{1}{2} \times 10 < 1 \times 10 < \frac{3}{2} \times 10$

B. $\frac{3}{2} \times 10 < 1 \times 10 < \frac{1}{2} \times 10$

C. $1 \times 10 < \frac{1}{2} \times 10 < \frac{3}{2} \times 10$

D. All three are equal



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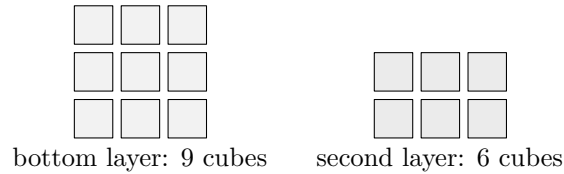
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- 1) A box is partially filled. The bottom layer has 9 unit cubes (3 by 3). The second layer has 6 unit cubes. What is the total?

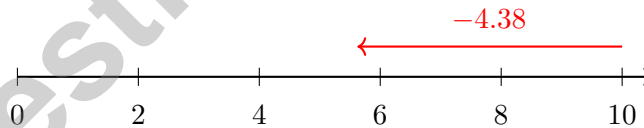


- | | |
|---|---|
| <input type="checkbox"/> A. 15 unit cubes | <input type="checkbox"/> C. 18 unit cubes |
| <input type="checkbox"/> B. 9 unit cubes | <input type="checkbox"/> D. 27 unit cubes |

- 2) Look at the pattern: 2, 6, 18, 54, ... What is the 6th term?

Record your answer in the space provided.

- 3) Use the number line to subtract. Find $10.00 - 4.38$:



- | | |
|----------------------------------|----------------------------------|
| <input type="checkbox"/> A. 5.72 | <input type="checkbox"/> C. 5.62 |
| <input type="checkbox"/> B. 6.12 | <input type="checkbox"/> D. 5.52 |

- 4) Evaluate the expression: $(15 + 9) \div 4 - 2 + 7$

Record your answer in the space provided.



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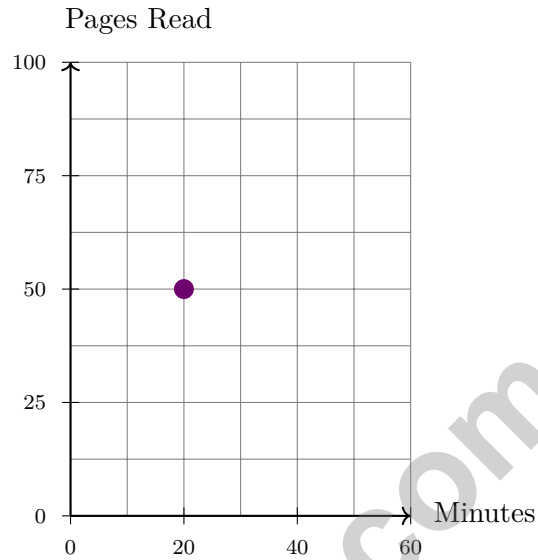
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- 1) On a graph with minutes on the x-axis and pages read on the y-axis, a point at (20, 50) means what?



- A. 50 minutes spent reading 20 pages C. 70 minutes of reading time
 B. 20 minutes spent reading 50 pages D. 20 pages in 50 minutes
- 2) Write 93×1000 using an exponent. Which is equivalent?
- A. 93×10^1 C. 93×10^3
 B. 93×10^2 D. 93×10^4
- 3) A factory worker packs 4,200 screws equally into 100 containers. How many screws are in each container?
- A. 0.42 C. 42
 B. 4.2 D. 420



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 C is correct.** (5.MD.C.5a) Volume = $24 \times 18 \times 20 = 8640$ cubic inches. The answer is written as 8,640 cubic inches.
- Choice A is correct.** (5.OA.A.2) In $4 \times (15 + 7)$, the 4 is multiplied by both 15 and 7. In $4 \times 15 + 7$, only 15 is multiplied by 4, with one 7 added afterward. The first expression is greater.
- Choice B is correct.** (5.NF.A.2) $\frac{5}{6} + \frac{1}{3} = \frac{5}{6} + \frac{2}{6} = \frac{7}{6}$ yards.
- Choice A is correct.** (5.NF.B.5b) The word “of” points to multiplication: $\frac{2}{3} \times \frac{5}{6} = \frac{10}{18}$, which simplifies to $\frac{5}{9}$.
- The correct answer is 60,000.** (5.NBT.A.2) Multiplying by a power of 10 shifts the value to a larger place. $6 \times 10,000 = 60,000$. This confirms the answer.
- Choice B is correct.** (5.NF.A.1) LCM(10,3) = 30. $\frac{4}{10} = \frac{12}{30}$ and $\frac{1}{3} = \frac{10}{30}$. $\frac{12}{30} + \frac{10}{30} = \frac{22}{30} = \frac{11}{15}$.
- Choice D is correct.** (5.G.A.2) The points are (2, 2), (4, 4), (6, 6), and (8, 8). The fourth point is (8, 8).
- Choice B is correct.** (5.MD.C.3b) $2 \times 3 \times 3 = 18$ cu. in. Choice A: $2 \times 3 \times 2 = 12$. Choice C: $3 \times 3 \times 1 = 9$. Choice D: $2 \times 2 \times 5 = 20$.
- Choice A is correct.** (5.NF.B.5a) The factors increase from $\frac{1}{2}$ to 1 to $\frac{3}{2}$, so the products increase: 5, 10, 15.
- Choice A is correct.** (5.NF.A.1) Borrow 1: $9\frac{1}{3} = 8\frac{4}{3}$. Then $8\frac{4}{3} - 4\frac{2}{3} = 4\frac{2}{3}$ gallons.
- Choice B is correct.** (5.NF.A.2) $4\frac{1}{10} \approx 4$ and $1\frac{7}{8} \approx 2$. So $4\frac{1}{10} - 1\frac{7}{8} \approx 4 - 2 = 2$.
- Choice B is correct.** (5.OA.A.1) Both parentheses become simpler numbers: $9 + 6 = 15$ and $5 - 2 = 3$. So the original expression is equivalent to 15×3 .
- Choice D is correct.** (5.MD.B.2) The most common value is the one with the greatest number of X marks. 5 has 4 X marks, which is more than 2 (1 mark), 3 (2 marks), 4 (3 marks), or 6 (1 mark).
- Choice C is correct.** (5.NF.B.4) $2 \times 1\frac{1}{2} = 2 \times \frac{3}{2} = \frac{6}{2} = 3$ cups.
- Choice C is correct.** (5.NBT.A.2) There are three factors of 100. Each one contributes two zeros, so the product has six zeros: 1,000,000.
- Choice B is correct.** (5.MD.C.5) The base area is 60 square inches. Since $300 \div 60 = 5$, the height is 5 inches.
- Choice A is correct.** (5.NF.B.7c) The unit fraction is the amount being shared, so divide $\frac{1}{10}$ by 2. The equation is $\frac{1}{10} \div 2 = n$.
- The correct answer is 6.78.** (5.NBT.B.7) Subtracting with borrowing: $15.05 - 8.27 = 6.78$.
- Choices A, B are correct.** (5.OA.A.2) Both A and B describe 4 copies of the grouped sum $(15 + 8)$. C adds 4 instead of multiplying by 4, and D groups the wrong numbers.
- The correct answer is 1.** (5.MD.A.1) Mia drinks $250 \times 4 = 1,000$ mL. Since 1,000 mL equals 1 liter, she drinks 1 liter that day.
- Choice A is correct.** (5.NBT.A.3a) In 2.04, the 0 holds the tenths place and the 4 is in the hundredths place. So the correct reading is “two and four hundredths.”
- Choice B is correct.** (5.NF.A.2) The denominator 4 is multiplied by 3 to make 12. Multiply the numerator by 3 also: $\frac{1}{4} = \frac{3}{12}$.
- Choice D is correct.** (5.NBT.A.3b) Trailing zeros do not change value: $0.25 = 0.250$. Either amount works for the recipe.
- The correct answer is 9348.** (5.NBT.B.5) $246 \times 8 = 1,968$ and $246 \times 30 = 7,380$. Sum: $1,968 + 7,380 = 9,348$.
- Choice C is correct.** (5.OA.A.2) Choice C translates correctly: the product of 2 and 8 is 2×8 , and 5 more gives $2 \times 8 + 5$. The other pairs change the grouping or order.
- The correct answer is 700.** (5.NBT.A.2) Dividing by 10,000 moves the decimal four places left: $7,000,000 \div 10,000 = 700$.
- Choice B is correct.** (5.NBT.A.4) 8.29 has tenths=2 and hundredths=9. Since $9 \geq 5$, round tenths up: $2 \rightarrow 3$, giving 8.3. The other choices round to 8.2 or 8.4.
- Choice D is correct.** (5.MD.C.5) Use the rectangular-prism volume formula: $8 \times 5 \times 6 = 240$. So the volume is 240 cubic inches.



Dear Math Student,

★ One of the best things about finishing seven tests is that you saw your mistakes clearly—and that is good news. Mistakes are not failures; they are information that helps you improve. ★

◇ **A professional habit:** when something goes wrong, you don't quit. You ask, "What happened?" and you fix it. That's how strong learners grow. ◇

Quick Mistake Check

- **Read error:** did I miss a word like "most" or "least"?
- **Math error:** did I add/subtract/multiply incorrectly?
- **Setup error:** did I choose the wrong operation?
- **Fix and learn:** write one short note so you remember next time.

You earned this: seven tests later, you're smarter, stronger, and more confident.

Reach me at reza@testinar.com if you want to share your progress.

Reza Nazari & Jay Daie

Your Math Coaches (Learn and Grow)

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.

KEY BENEFITS:



TARGETED PRACTICE

Focus on the most important Grade 5 math skills.



STANDARD-ALIGNED

All tests align with state standards for Grade 5.



BUILD CONFIDENCE

Strengthen skills, reduce test anxiety, and boost confidence.



IMPROVE PERFORMANCE

Timed practice helps improve speed and accuracy.



ACHIEVE SUCCESS

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



STRONG SKILLS. BRIGHT FUTURE.

Give your child the tools they need to succeed in math and in life!



Visit testinar.com/math5 for more Grade 5 math resources and practice materials!



TRUSTED
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Quality resources you can trust.



DESIGNED
FOR SUCCESS

Proven practice for real results.



SUPPORT
YOUR CHILD

Every step of the way.