

6 Delaware DeSSA

GRADE 4 MATH PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



MASTER KEY MATH CONCEPTS
BUILD CONFIDENCE FOR TEST DAY

INCLUDES COMPREHENSIVE ANSWER KEY
ALIGNED STATE STANDARDS

6 Delaware DeSSA Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Six complete 30-question Grade 4 practice rounds for DeSSA, built around bay breezes, first-state focus, and crisp checking habits, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Delaware Math Explorer!

Six steady rounds on the First State math route

This book gives you six full Grade 4 practice tests for DeSSA. Each round uses bay breezes, first-state focus, and crisp checking habits to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Delaware Practice Promise

I will slow down for the question, circle what matters, solve one step at a time, and use mistakes as clues for getting stronger.

Read

Plan

Check

How to Use This Book

A ten-session routine for Delaware DeSSA review

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Treat each round like a stop on the First State math route.
3. **Mark your confidence.** Put a small star beside problems you solved with a strong plan.
4. **Check, then retry.** For missed questions, try the problem again before reading the explanation.
5. **Track your next move.** Use the growth log to name one habit and one skill for the next test.

Good rhythm: Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



What Is Inside?

Six tests, 180 questions, and a full DeSSA review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for reading carefully, choosing operations, and using models.
Tests 4–6	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 4–6	Stamina rounds for mixed review, neat work, and flexible strategies.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Real test readiness means recognizing the skill even when the next question changes topic.



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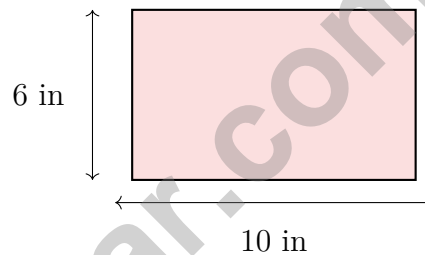
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1) Noah's school library has 15,678 books. The library receives 5,432 new books. How many books does the library have now?

- A. 21,110 C. 20,110
 B. 21,010 D. 21,210

2) A train travels 75 kilometers per hour. If it travels for 5 hours, how far does it go?

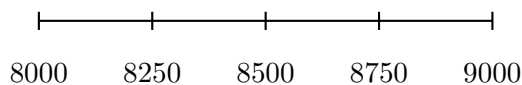
- A. 80 km C. 375 km
 B. 150 km D. 380 km



3) What is the perimeter of the rectangle shown above?

- A. 16 in C. 60 in
 B. 32 in D. 48 in

4) Which number line best shows 8,250 and where it rounds?



- A. 8,250 rounds to 8,000 C. 8,250 rounds to 9,000
 B. 8,250 rounds to 8,500 D. 8,250 stays the same



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5) A fraction bar is divided into 6 equal parts with 4 parts shaded. Express this as a multiplication of a unit fraction.

A. $4 \times \frac{1}{6}$

B. $6 \times \frac{1}{4}$

C. $2 \times \frac{1}{6}$

D. $6 \times \frac{1}{6}$

6) A sequence of multiples is: $\frac{1}{8}, \frac{2}{8}, \frac{3}{8}, ?$. Which is the next multiple?

A. $\frac{3}{9}$

B. $\frac{4}{8}$

C. $\frac{3}{16}$

D. $\frac{4}{16}$

7) Add: $\frac{4}{10} + \frac{15}{100}$.

A. $\frac{19}{100}$

B. $\frac{4}{15}$

C. $\frac{55}{100}$

D. $\frac{59}{100}$

8) What is 2×672 ?

A. 1244

B. 1444

C. 1344

D. 1544

9) $\frac{5}{4}$ is the same as $1\frac{1}{4}$. Which shows this decomposition?

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

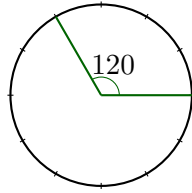
B. $\frac{2}{4} + \frac{2}{4}$

C. $\frac{3}{4} + \frac{1}{4}$

D. $\frac{4}{4} + \frac{2}{4}$

10) A restaurant has 8 small tables. It has 3 times as many medium tables as small tables. How many medium tables does it have?



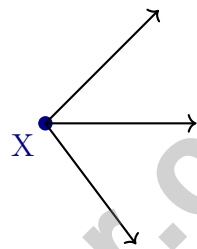


5)

An angle measures 120 degrees. How many one-degree angles make this angle?

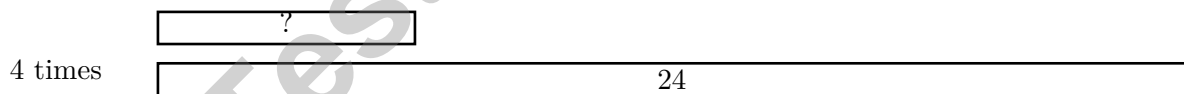
- A. 60 one-degree angles
- B. 120 one-degree angles
- C. 240 one-degree angles
- D. 12 one-degree angles

6) In this diagram, how many rays start at point X?



- A. 1 ray
- B. 2 rays
- C. 3 rays
- D. 4 rays

7)



A fruit stand has 24 apples. The number of apples is 4 times the number of oranges. How many oranges are there?

- A. 4
- B. 12
- C. 8
- D. 6

- 1) In 0.84, what is the value of the digit 8 as a decimal?

- 2) A fraction bar partitioned into eighths shows seven unit fractions shaded:

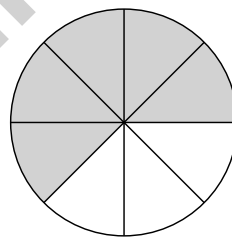


7 eighths

This correctly decomposes to:

- A. $\frac{7}{8} = 7 \times \frac{1}{8}$ C. $\frac{7}{8} = \frac{2}{8} + \frac{4}{8}$
 B. $\frac{7}{8} = \frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7} + \frac{1}{7}$ D. $\frac{7}{8}$ cannot be decomposed

- 3) On a pie chart divided into 8 equal slices, how many slices represent $\frac{5}{8}$ of the pie?



$\frac{5}{8}$

- A. 2 slices C. 5 slices
 B. 3 slices D. 8 slices



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- 4) A water jug holds $2\frac{2}{5}$ gallons. If $1\frac{1}{5}$ gallons have been spilled, how much water is in the jug now?
- A. $1\frac{1}{5}$ C. $1\frac{2}{5}$
 B. $3\frac{3}{5}$ D. $2\frac{1}{5}$
- 5) Which of the following is true about a rhombus that is **not** a square?
- A. It has 4 lines of symmetry C. It has 1 line of symmetry
 B. It has 2 lines of symmetry D. It has no lines of symmetry
- 6) Which shape has perpendicular sides and all angles of 90 degrees?
- A. Acute triangle C. Rectangle
 B. Obtuse triangle D. Trapezoid
- 7) A cake is divided into 2 equal halves. Both halves are eaten. Which shows this as a sum of unit fractions?
- A. $\frac{1}{2}$ C. $\frac{2}{2}$
 B. $\frac{1}{2} + \frac{1}{2}$ D. $\frac{1}{1}$
- 8) If you have $300,000 + 20,000 + 5,000 + 600 + 30 + 2$, what is the numeral?
- A. 320,632 C. 352,632
 B. 305,632 D. 325,632



Practice Test Answer Keys

How to use this section with a Grade 4 student:

1. check the answer first
2. mark questions to try again
3. rework the problem before reading the full explanation

A calm correction routine turns every missed item into useful practice.

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Practice Test Answers and Explanations

Practice Test 1 Answers and Explanations

- Choice A is correct.** (4.NBT.B.4) The library receives more books, so we add. $15,678 + 5,432 = 21,110$ books total.
- Choice C is correct.** (4.MD.A.2) The train travels 75 kilometers per hour for 5 hours. Multiply: $75 \times 5 = 375$ km. It travels **375** kilometers.
- Choice B is correct.** (4.MD.A.3) The rectangle is 10 in long and 6 in wide. Perimeter = $2(10) + 2(6) = 20 + 12 = 32$ in.
- Choice A is correct.** (4.NBT.A.3) We're rounding to the nearest thousand. Look at the hundreds digit in 8,250: it's $2 < 5$, so round DOWN to **8,000** ✓. The number line shows 8,250 is closer to 8,000 than to 9,000.
- Choice A is correct.** (4.NF.B.4) Count the shaded parts: 4 parts. Count the equal parts: 6 total. So this shows 4 copies of $\frac{1}{6}$, which we write as $4 \times \frac{1}{6}$.
- Choice B is correct.** (4.NF.B.4) The pattern counts by eighths: $\frac{1}{8}, \frac{2}{8}, \frac{3}{8}, \dots$. So next is $4 \times \frac{1}{8} = \frac{4}{8}$.
- Choice C is correct.** (4.NF.C.5) Convert $\frac{4}{10}$ to hundredths: $\frac{4}{10} = \frac{40}{100}$. Now we can add: $\frac{40}{100} + \frac{15}{100} = \frac{55}{100}$.
- Choice C is correct.** (4.NBT.B.5) Use partial products: $2 \times (600 + 70 + 2) = 1200 + 140 + 4 = \mathbf{1344}$.
- Choice A is correct.** (4.NF.B.3) $\frac{4}{4}$ is one whole, and $\frac{1}{4}$ more makes $1\frac{1}{4}$. Add: $4 + 1 = 5$, so $\frac{4}{4} + \frac{1}{4} = \frac{5}{4}$ ✓.
- The correct answer is 24.** (4.OA.A.1) "3 times as many" = multiply by 3. The restaurant has $8 \times 3 = \mathbf{24}$ medium tables.
- Choice B is correct.** (4.MD.B.4) Leo's total: $\frac{6}{4}$. Sam's total: $\frac{4}{4} = 1$. Chris's total: $\frac{9}{4}$. Sam has the shortest length.
- Choice D is correct.** (4.NF.B.4) A: $4 \times \frac{1}{2} = \frac{4}{2} = 2$ ✓. B: $6 \times \frac{1}{3} = \frac{6}{3} = 2$ ✓. C: $3 \times \frac{2}{3} = \frac{6}{3} = 2$ ✓. D: $5 \times \frac{1}{2} = \frac{5}{2} = 2\frac{1}{2}$ (NOT 2). The answer is **D**.
- Choice C is correct.** (4.OA.B.4) Build a pyramid: Figure 1 = 1, Figure 2 = $1 + 2 = 3$, Figure 3 = $1 + 2 + 3 = 6$. Figure 5 = $1 + 2 + 3 + 4 + 5 = \mathbf{15}$ circles.
- Choice A is correct.** (4.NF.B.4) The recipe is for 2 people and uses $\frac{3}{4}$ cup of oil. Making it for 8 people (4 times the recipe) needs $4 \times \frac{3}{4} = \frac{12}{4} = 3$ cups.
- Choice B is correct.** (4.NF.B.3) When we add unit fractions with the same denominator, we keep the denominator and add the numerators. $\frac{1}{4} + \frac{1}{4} + \frac{1}{4}$ has three 1's in the numerator, so it equals $\frac{3}{4}$. The other choices incorrectly change the denominator.
- Choice A is correct.** (4.G.A.1) Points J , K , and L all sit on the same straight horizontal line, making them collinear. Point M stands off to the side, so it's not part of this collinear group.
- The correct answer is A, D.** (4.OA.B.4) Test each by trying small prime divisors (2, 3, 5, 7). 31: passes all—**prime** ✓. 33 = 3×11 (composite). 35 = 5×7 (composite). 37: passes all—**prime** ✓. 39 = 3×13 (composite). So choices A and D are the prime numbers.
- Choice C is correct.** (4.G.A.3) A non-square rhombus has a "diamond" shape that balances along both diagonals. Each diagonal splits it into two matching triangles. The answer is **2** lines of symmetry.
- Choice C is correct.** (4.NF.C.5) 0.68 uses both the tenths place (the 6) and the hundredths place (the 8), so it equals $\frac{68}{100}$ or sixty-eight hundredths.
- Choice B is correct.** (4.NF.B.3) The recipe needs more flour than Noah has. Find the difference: $\frac{5}{4} - \frac{3}{4} = \frac{2}{4}$ cups more flour needed.
- Choice B is correct.** (4.NF.B.3) Same denominator means we just combine numerators: $3 + 2 = 5$, so $\frac{5}{8}$.
- Choice C is correct.** (4.NF.A.1) The denominator changes from 3 to 12. What times 3 makes 12? $3 \times 4 = 12$. So multiply the numerator by 4: $\frac{2}{3} = \frac{2 \times 4}{3 \times 4} = \frac{8}{12}$.
- Choice D is correct.** (4.NBT.A.2) Breaking it: 73 thousands ("seventy-three thousand") and 546 ones ("five hundred forty-six") ✓
- Choice B is correct.** (4.MD.C.5) A right angle always measures **90** degrees.
- Choice D is correct.** (4.NBT.A.1) Count each block type: 5 thousands, 0 hundreds, 3 tens, 7 ones. Sum: $5,000 + 0 + 30 + 7 = \mathbf{5,037}$. ✓
- Choice A is correct.** (4.MD.C.7) The angle is split into two parts. Subtract to find the missing one: $165^\circ - 92^\circ = \mathbf{73^\circ}$.



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A Quiet Word From Your Mentor

Hi, Thoughtful Student,

◇ I want to take a moment to tell you something true: you did excellent work. 6 practice tests is a real promise that you kept to yourself. That matters. ◇

★ **Mentors notice:** growth is quiet. It doesn't shout. But it shows up in how you handle a problem today vs how you did weeks ago. That growth is your real prize. ★

What I See in You

- **Hard Work:** You don't quit when problems are tough.
- **Curiosity:** You wonder why and how.
- **Kindness:** You are patient with yourself.
- **Brave Heart:** You try things that scare you.

Mentor's note: on test day, treat yourself like you would a friend. Be kind. Be patient. Be encouraging. The skills are inside you!

If you want to share something or ask a question, please email me at jay@testinar.com.

Jay Daie

Your Math Mentor

PRACTICE TODAY, SUCCEED TOMORROW!

This **Grade 4 Math Practice Tests** book is the perfect tool to help students strengthen their math skills, master important concepts, and build confidence for test success.

With 6 full-length practice tests, a variety of question types, and detailed answer explanations, students get the review and practice they need to improve accuracy, develop critical thinking, and achieve their best.

Ideal for classroom use, homework, test preparation, and extra practice at home.

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SUCCESS FOR LIFE.**

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Stronger Math Skills

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Better Problem Solving

Develop logical thinking and effective solution strategies.



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Become familiar with test-style questions and formats.



Track Progress

Measure growth across multiple practice tests.



Master Key Concepts

Reinforce important skills aligned with grade-level standards.



Prepare for Success

Build the confidence needed to do your best on test day.

TOPICS COVERED

- ✔ Place Value & Number Sense
- ✔ Addition & Subtraction
- ✔ Multiplication & Division
- ✔ Fractions & Equivalent Fractions
- ✔ Decimals
- ✔ Geometry & Measurement
- ✔ Perimeter & Area
- ✔ Data, Graphs & Line Plots
- ✔ Patterns & Algebraic Thinking
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