

5 Delaware DeSSA Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Five 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.

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Welcome, Delaware Math Explorer!

Five steady rounds on the First State math route

This book gives you five 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?

Five tests, 150 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 3–5	Skill-building rounds with fractions, measurement, area, data, and two-step problems.
Tests 3–5	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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& answers

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1) Sam wrote “five hundred sixteen thousand, two hundred thirty” as 516,230. Is this correct?

A. No; it should be 516,032

C. No; it should be 516,320

B. No; it should be 516,203

D. Yes, it is correct

2) How many rays form an angle?

3) Find $8 \times \frac{2}{3}$ as a mixed number.

4) Which equation shows that 24 is 6 times as many as 4?

A. $24 + 4 = 28$

C. $24 = 6 \times 4$

B. $24 - 4 = 20$

D. $24 \div 4 = 9$

5)

6 times

A box has 36 crayons. That is 6 times as many crayons as a smaller box has. How many crayons are in the smaller box?

A. 42

C. 30

B. 12

D. 6



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$\frac{6}{10}$ distance



6)

?

A runner has completed $\frac{6}{10}$ of the race. How much of the race remains?

A. $\frac{6}{10}$

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

B. $\frac{4}{10}$

D. $\frac{2}{10}$

7) A quadrilateral has two pairs of parallel sides and four right angles, but the sides are not all equal. What is it?

 A. Square

 C. Rhombus

 B. Rectangle

 D. Trapezoid

8) Which number does NOT belong in this pattern? 12, 24, 36, 50, 60

 A. 12

 C. 50

 B. 36

 D. 60

9) The letter *Y* has how many lines of symmetry?

 A. 0

 C. 2

 B. 1

 D. 3

10) Noah's plant is 0.6 meters tall. Which fraction shows this height?

A. $\frac{6}{100}$ meters

C. $\frac{60}{10}$ meters

B. $\frac{6}{10}$ meters

D. $\frac{600}{10}$ meters



11) Which conversion is correct?

- A. 2 meters = 2 centimeters
 B. 5 feet = 60 inches
 C. 3 liters = 30 milliliters
 D. 4 pounds = 48 ounces

12) Which number is a factor of 16?

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

13) Convert $\frac{1}{10}$ to a fraction with denominator 100.

- A. $\frac{1}{100}$
 B. $\frac{11}{100}$
 C. $\frac{10}{100}$
 D. $\frac{100}{100}$

14) Compare the angles shown. Which statement is true?

Angle A



Angle B



- A. Angle A is larger than Angle B
 B. Angle B is larger than Angle A
 C. Both angles are equal
 D. Cannot be determined from the diagram

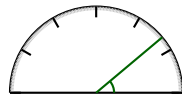
15) A library has 13 shelves. Each shelf holds 64 books. How many books are on these shelves?

- A. 832 books
 B. 778 books
 C. 845 books
 D. 912 books



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1)



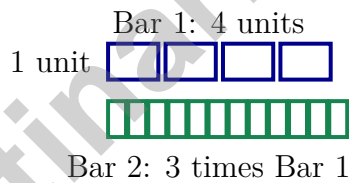
What is the measure of the angle shown?

- A. 35 degrees
- B. 40 degrees
- C. 45 degrees
- D. 50 degrees

2) A party favor bag holds $\frac{1}{6}$ pound of candy. If you prepare 8 bags, how much candy is used in total?

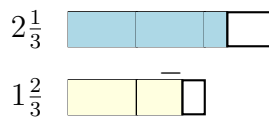
- A. $\frac{1}{48}$ pound
- B. $\frac{8}{6}$ pounds (or $1\frac{1}{3}$ pounds)
- C. $\frac{8}{48}$ pound
- D. $\frac{6}{8}$ pound

3) Look at the bar model. Both bars show a total of how much?



- A. 4 units
- B. 8 units
- C. 12 units
- D. 16 units

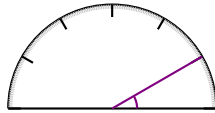
4)



Using the bar models shown, what is $2\frac{1}{3} - 1\frac{2}{3}$?

- A. $\frac{2}{3}$
- B. $\frac{4}{3}$
- C. 1
- D. $1\frac{1}{3}$

1)



What is the measure of the angle shown?

 A. 30 degrees C. 60 degrees B. 45 degrees D. 90 degrees

2) Sam read 234 pages of a book on Monday. On Tuesday, he read 189 more pages. How many pages did he read in total?

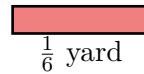
 A. 423 pages C. 424 pages B. 413 pages D. 333 pages

3) An angle of 156° is split into two smaller angles. If one angle is 89° , what is the measure of the other angle?

4) Write 0.42 as a fraction with denominator 100.



5)



The ribbon above is $\frac{1}{6}$ yard long. If Zara lines up 4 of these ribbons end-to-end, how long is the line?

- A. $\frac{4}{6}$ yard (or $\frac{2}{3}$ yard) C. $\frac{1}{24}$ yard
 B. $\frac{4}{24}$ yard D. $\frac{6}{4}$ yards

6) How many 45° angles fit into a full circle?

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

7) Ming has 50 cookies. She gives away 14 cookies. Then she puts the remaining cookies equally into 4 bags. How many cookies are in each bag?

- A. 12 C. 9
 B. 11 D. 8

8) Which number is divisible by 3?

- A. 37 C. 57
 B. 44 D. 62

9) A bag of sugar weighs 25 ounces. A bag of flour weighs 32 ounces. How much more does the flour weigh?

- A. 7 ounces C. 25 ounces
 B. 57 ounces D. 32 ounces



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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 D is correct.** (4.NBT.A.2) Thousands: $516 \rightarrow 516,000$. Ones: $230 \rightarrow 230$. Combined: $516,230$ matches Sam's numeral ✓
- The correct answer is 2.** (4.MD.C.5) An angle is formed by **2** rays that share a vertex.
- The correct answer is $5\frac{1}{3}$.** (4.NF.B.4) We take 8 copies of $\frac{2}{3}$. Multiply: $8 \times \frac{2}{3} = \frac{8 \times 2}{3} = \frac{16}{3} = 5\frac{1}{3}$. The answer is **$5\frac{1}{3}$** .
- Choice C is correct.** (4.OA.A.1) When you see “times as many,” think *multiplication!* “6 times as many as 4” becomes 6×4 , which equals 24. So choice C, $24 = 6 \times 4$, is the equation that captures that idea.
- Choice D is correct.** (4.OA.A.2) We know the bigger box has 36 crayons, and that’s 6 times the smaller box. To find the smaller, divide: $36 \div 6 = 6$ crayons.
- Choice B is correct.** (4.NF.B.3) The picture shows a runner’s progress on the race. She completed the blue portion, so subtract from the whole track: $\frac{10}{10} - \frac{6}{10} = \frac{4}{10}$ of the race remains.
- Choice B is correct.** (4.G.A.2) A rectangle has two pairs of parallel sides and all four right angles. Although opposite sides are equal in length, not all four sides must be equal. The answer is **B**.
- Choice C is correct.** (4.OA.B.4) The pattern should follow “add 12,” giving multiples of 12: 12, 24, 36, 48, 60, ... Looking at the list, 50 does not appear in that sequence ($48 + 12 = 60$, not 50). So **50** is the number that doesn’t belong.
- Choice B is correct.** (4.G.A.3) The letter Y has two equal arms at the top that open symmetrically. A vertical line down the middle divides it into matching left and right halves. The answer is **1** line of symmetry.
- Choice B is correct.** (4.NF.C.5) 0.6 is the decimal form of six tenths: $0.6 = \frac{6}{10}$.
- Choice B is correct.** (4.MD.A.1) Check each option. A: 2 m = 200 cm, not 2 cm. B: 5 feet = $5 \times 12 = 60$ inches. Correct! C: 3 L = 3,000 mL, not 30 mL. D: 4 pounds = $4 \times 16 = 64$ ounces, not 48 oz. The answer is **B**.
- Choice D is correct.** (4.OA.B.4) A factor divides evenly with no remainder. Check each choice: $16 \div 3 = 5$ r 1 (no); $16 \div 4 = 4$ (yes ✓); $16 \div 5 = 3$ r 1 (no); $16 \div 6 = 2$ r 4 (no). The full factor list is 1, 2, 4, 8, 16.
- Choice C is correct.** (4.NF.C.5) To convert $\frac{1}{10}$ to hundredths, multiply both the numerator and denominator by 10: $\frac{1}{10} = \frac{1 \times 10}{10 \times 10} = \frac{10}{100}$.
- Choice B is correct.** (4.G.A.1) Angle A is small (around 67°), but Angle B opens much wider — almost like a right angle. Angle B definitely wins the size competition!
- Choice A is correct.** (4.NBT.B.5) Multiply by parts: $13 \times (60 + 4) = 780 + 52 = 832$ books.
- Choice C is correct.** (4.MD.A.2) There are 8 cups of juice for 6 glasses. Divide: $8 \div 6 = 1\frac{1}{3}$ cups. Each glass gets **$1\frac{1}{3}$** cups.
- The correct answer is 6.** (4.NF.A.1) The denominator changes from 3 to 9—that’s multiply by 3. Multiply the numerator by 3 also: $\frac{2 \times 3}{3 \times 3} = \frac{6}{9}$.
- The correct answer is B, D.** (4.MD.C.5) Choice B: A half turn is $\frac{1}{2} \times 360^\circ = 180^\circ$ ✓. Choice D: The minute hand from 12 to 6 is a half turn, also 180° ✓. Choice A: $\frac{1}{4} \times 360^\circ = 90^\circ$. Choice C: $\frac{2}{3} \times 360^\circ = 240^\circ$. Choice E: 12 to 3 is one-quarter, or 90° .
- Choice A is correct.** (4.MD.C.6) This angle measures about 70° . When we round to the nearest 10 degrees, it stays at 70° because 70° is right at the mark. The answer is **70** degrees.
- Choice B is correct.** (4.NF.B.3) Same denominator, same rule: add the numerators ($4 + 5 = 9$), keep the denominator. Answer: $\frac{9}{10}$.
- Choice A is correct.** (4.NF.B.3) We have 5 copies of the unit fraction $\frac{1}{8}$. When we add them, the denominator stays 8, and we count the unit fractions: 5 of them. So $\frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} + \frac{1}{8} = \frac{5}{8}$.
- Choice A is correct.** (4.MD.C.5) The small angle reaches the first degree mark at 9° , containing **9** one-degree angles.
- Choice A is correct.** (4.MD.A.3) Area = $7 \times 5 = 35$ sq cm.
- Choice A is correct.** (4.NBT.B.6) We round 4,156 to the compatible number 4,000 (a number that divides nicely by 4). Since $4,000 \div 4 = 1,000$, the quotient is about **1,000**. Why “compatible”? It makes mental math easy.
- Choice C is correct.** (4.NF.A.1) A fraction is greater than 1 when the numerator exceeds the denominator. Since $5 > 4$, $\frac{5}{4} > 1$.



Hi, Math Detective!

◇ You did such a great job! You finished 5 tests like a real detective. You found the clues, used your tools, and solved the math. ◇

★ **Detectives know:** good work takes time. You took your time. You looked carefully. You found the answers! ★

Your Detective Skills

- **Sharp Eyes:** You notice the small details.
- **Smart Plans:** You pick the right way to solve.
- **Brave Heart:** You try even when it's tricky.
- **Steady Work:** You finish what you start.

Detective tip: on test day, look carefully at each problem. Underline important words. Then solve like the detective you are!

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

Jay Daie

Your Math Detective Helper

5 PRACTICE TESTS. BUILD SKILLS. BOOST CONFIDENCE!

This **Grade 4 Math Practice Tests** book is designed to help students master essential math concepts, improve problem-solving skills, and build the confidence they need to excel.

With 5 full-length practice tests, a variety of question types, and detailed answer explanations, students get the practice they need to understand math, strengthen critical thinking, and perform their best on test day and beyond.

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Prepare for Success

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

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- ✓ Multiplication & Division
- ✓ Fractions & Equivalent Fractions
- ✓ Decimals
- ✓ Geometry & Measurement
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A+