

# 8

# Delaware

## DeSSA

### GRADE 3

# MATH

## PRACTICE TESTS

Standards-Aligned Review with  
Mixed Practice and Answer Key



8 Full-Length  
Practice Tests



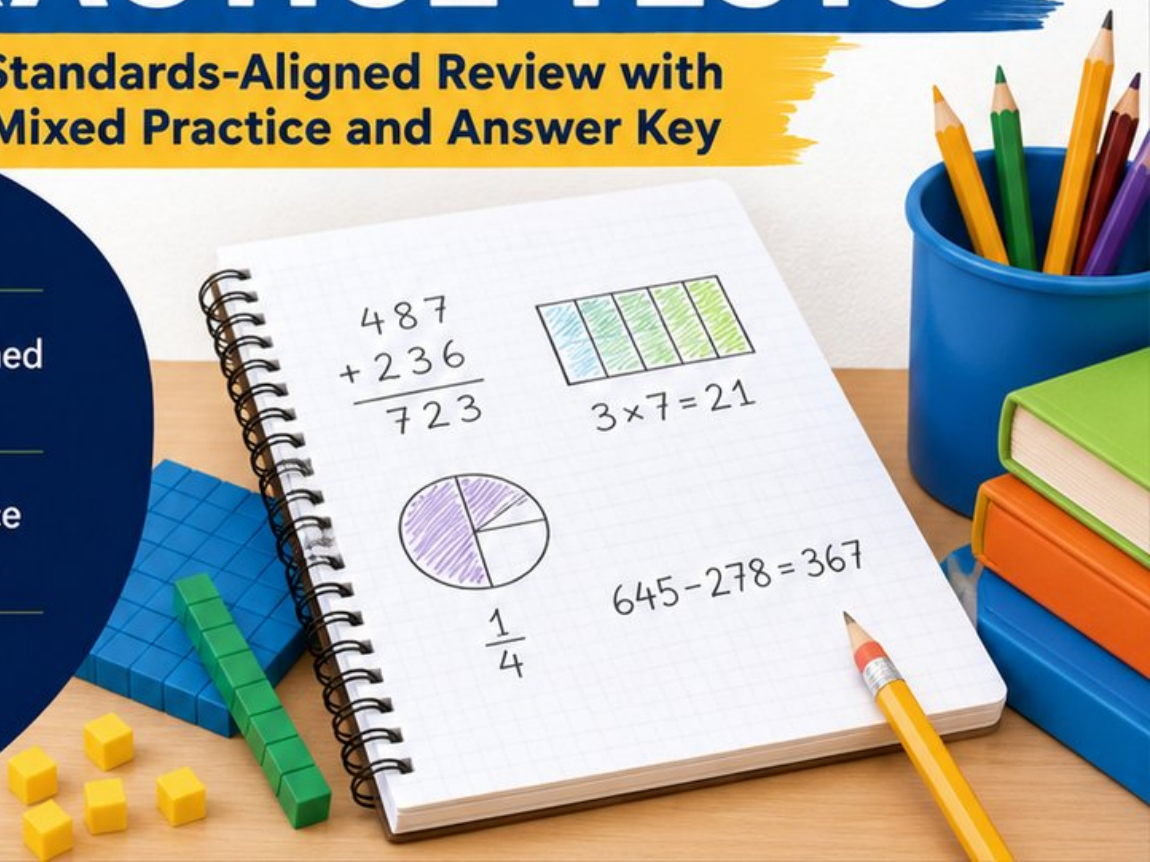
Standards-Aligned  
Questions



Build Confidence  
and Math Skills



Answer Key  
Included



# 8 Delaware DeSSA Grade 3 Math Practice Tests

*Standards-Aligned Review with Mixed Practice and Answer Key*



Eight complete 30-question practice rounds for Grade 3 math: operations, fractions, measurement, data, area, shapes, answer keys, and clear explanations for every item.

**Jay Daie and Reza Nazari**



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# Delaware, Your Eight-Test Math Path Begins

Eight focused rounds, one stronger Grade 3 problem solver

This book gives you eight full chances to practice like a careful test taker for the Delaware DeSSA. Each test is a new route through numbers, shapes, data, measurement, and word problems. Work slowly enough to notice what the question asks, and proudly enough to show your thinking.

Delaware has bay beaches, farm roads, small towns, marsh paths, and busy crossings, where careful steps matter. Strong math follows that same path: notice the question, choose a tool, show the work, and move carefully through each short step.

## Your Delaware Math Promise

I will read the whole question, choose a smart strategy, write clear work, and check whether my answer makes sense.

**Eight rounds. Thirty questions each. One careful step at a time.**

# How to Use This Book

A simple eight-round routine for confident review

Use this Delaware book as a practice plan, not a race. Finish one test, review it, fix a few problems, then carry one better habit into the next test.

1. **Preview the reference page.** Notice units, time, and measurement facts before you begin.
2. **Take one full test.** Circle anything that feels tricky so you can return to it.
3. **Check the answer key.** Mark correct answers and questions to try again.
4. **Read explanations.** Study missed items and lucky guesses first.
5. **Redo three problems.** Write fresh work without copying the explanation.
6. **Name one habit.** Pick a focus such as labels, facts, fractions, or neat work.
7. **Try the next test.** Bring that habit forward.
8. **Finish with a final check.** Look for growth across all eight tests.

**Best review habit:** In Delaware, strong practice means slowing down enough to see the clue. When an answer is wrong, ask, “What step would I change next time?”



# What Is Inside the Eight Tests?

## Mixed Grade 3 math practice for the DeSSA

Each practice test has 30 questions. You will see multiple-choice questions, select-all questions, and open-ended questions with workspace. The mix helps students practice both choosing an answer and explaining a short mathematical result.

Part	What to Expect
Eight full tests	30 mixed Grade 3 questions in each round
Math topics	multiplication, division, place value, fractions, time, measurement, data, area, perimeter, and shapes
Answer keys	compact answer boxes for quick checking
Explanations	short reasoning for every item so mistakes become useful review
Progress pages	places to record scores, habits, and next-step goals

**Delaware focus:** The practice path starts with bay beaches, farm roads, small towns, marsh paths, and busy crossings. Strong math uses the same idea: know the path, follow the clues, and check the final answer.



Scan me!  
For more practice  
& answers

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- 1) Which shape covers more space: a rectangle that is 3 units by 7 units, or a square that is 5 units by 5 units?
- A. The rectangle  C. They cover the same space  
 B. The square  D. The rectangle is taller
- 2) A store orders 5 boxes of red apples with 7 apples in each box. They also order 4 boxes of green apples with 9 apples in each box. How many apples in total?
- A. 35  C. 71  
 B. 36  D. 72
- 3) A rectangular tile is 9 unit squares long and 7 unit squares wide. How many unit squares cover it?
- A. 54 unit squares  C. 72 unit squares  
 B. 63 unit squares  D. 90 unit squares
- 4) Ava draws two number lines from 0 to 1. One is split into 3 equal parts; the other is split into 4 equal parts. Which unit fraction represents a smaller piece?
- A.  $\frac{1}{3}$   C. Both are equal  
 B.  $\frac{1}{4}$   D. Cannot tell
- 5) A shape is made of two rectangles. Rectangle 1 has area 12 sq units, and Rectangle 2 has area 15 sq units. What is the total area?
- A. 15 sq units  C. 27 sq units  
 B. 24 sq units  D. 180 sq units

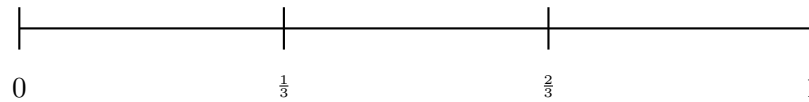


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6) Ben shares 32 cookies equally among 4 friends. How many cookies does each friend get?

- A. 28                                       C. 9  
 B. 36                                       D. 8

7) Look at this number line divided into 3 equal parts. Which fraction is NOT on this line?

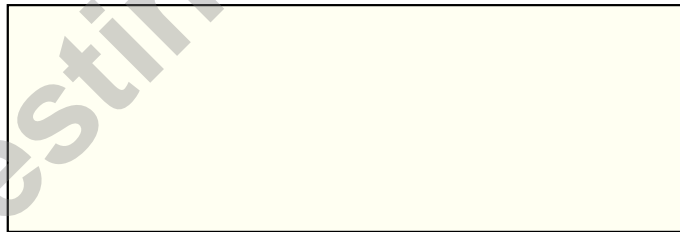


- A.  $\frac{1}{3}$                                        C.  $\frac{3}{3}$   
 B.  $\frac{2}{3}$                                        D.  $\frac{1}{4}$

8) A rectangle has length 6 units and width 3 units. What is its area?

- A. 9 sq units                               C. 18 sq units  
 B. 12 sq units                               D. 36 sq units

3 yards



9 yards

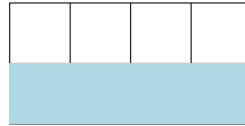
9)

A rectangular field measures 9 yards long and 3 yards wide. What is the area of the field?

- A. 24 sq yd                               C. 12 sq yd  
 B. 27 sq yd                               D. 36 sq yd

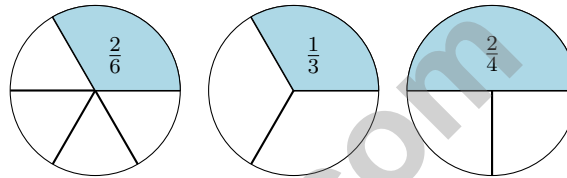


10) Look at the rectangle divided into 8 equal parts. Which fraction in eighths describes the shaded part?



- A.  $\frac{1}{8}$ 
 C.  $\frac{4}{8}$   
 B.  $\frac{2}{8}$ 
 D.  $\frac{3}{8}$

11) Look at the pie charts. Select the pair that is equivalent.



- A. First and second
  C. Second and third  
 B. First and third
  D. All three

12)

×	1	2	3	4	5
2	2	4	6	8	10
3	3	6	9	12	15
4	4	8	12	16	20
5	5	10	15	20	25

Looking at the number 12 in the table, which multiplications give 12?

- A. Only  $3 \times 4$ 
 C.  $3 \times 4$  and  $4 \times 3$   
 B. Only  $4 \times 3$ 
 D.  $2 \times 6$  and  $3 \times 4$



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1) Round 95 to the nearest 10. (Hint: This is a rollover case where the tens digit becomes 0.)

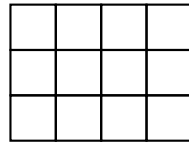
A. 90

C. 100

B. 95

D. 110

2) Look at this rectangle covered exactly by unit squares:



Count the unit squares. What is the area?

A. 7 sq units

C. 14 sq units

B. 12 sq units

D. 24 sq units

3) What is  $4 \times 50$ ?

4) Mia buys 8 bags of candy. Each bag has 3 candies. How many candies does Mia buy?

A. 11

C. 18

B. 16

D. 24



5) Noah knows that  $7 \times 2 = 14$ . What is  $2 \times 7$ ?

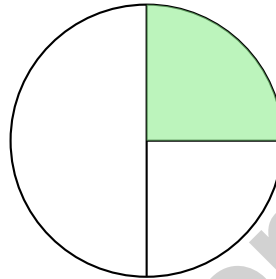
A. 9

C. 16

B. 12

D. 14

6) A circle is divided into 2 equal halves. One half is divided again into 2 equal parts. Which fraction shows one of the smaller parts?



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

C.  $\frac{2}{4}$

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

D.  $\frac{3}{4}$

7) A rectangular game board is 5 inches long and 4 inches wide. What is the area of the game board?



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1) What is 555 rounded to the nearest 10?

- A. 550                       C. 560  
 B. 555                       D. 600

2) Sam's swim practice starts at 4 : 30 PM and ends at 5 : 42 PM. How many minutes is the practice?

- A. 60 minutes                       C. 72 minutes  
 B. 70 minutes                       D. 75 minutes

3) What number makes the equation true?

$$\square \times 4 = 28$$

- A. 6                                       C. 24  
 B. 32                                       D. 7

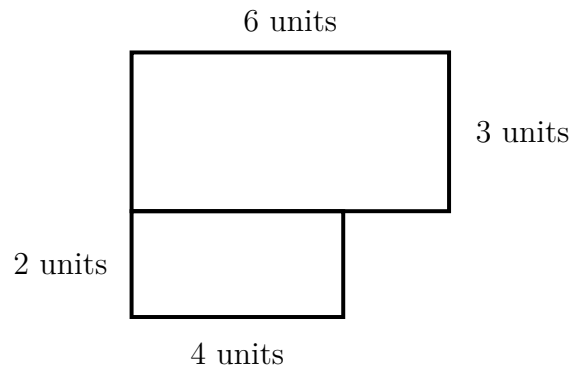
4)



Order these fractions from smallest to largest:  $\frac{3}{4}$ ,  $\frac{2}{2}$ ,  $\frac{3}{8}$ .

- A.  $\frac{2}{2}$ ,  $\frac{3}{4}$ ,  $\frac{3}{8}$                        C.  $\frac{3}{4}$ ,  $\frac{3}{8}$ ,  $\frac{2}{2}$   
 B.  $\frac{3}{8}$ ,  $\frac{3}{4}$ ,  $\frac{2}{2}$                        D.  $\frac{3}{8}$ ,  $\frac{2}{2}$ ,  $\frac{3}{4}$

- 5) An L-shaped deck is shown with dashed lines. Upper part: 6 units by 3 units. Lower left part: 4 units by 2 units. What is the total area?



- A. 15 sq units
- B. 30 sq units
- C. 26 sq units
- D. 48 sq units
- 6) Noah drew 6 boxes with 4 stars in each box. How many stars did Noah draw in total?
- A. 10 stars (adds  $6 + 4$ )
- B. 15 stars
- C. 16 stars (multiplies by second number:  $4 \times 4$ )
- D. 24 stars
- 7) A rectangle has 4 rows of unit squares and 8 columns of unit squares. What is its area?



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## Practice Test Answer Keys

**How to use this section with a Grade 3 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 B is correct.** (3.MD.C.5) Rectangle:  $3 \times 7 = 21$  square units. Square:  $5 \times 5 = 25$  square units. The square covers more space.
- Choice C is correct.** (3.OA.D.8) Step 1: Red apples:  $5 \times 7 = 35$  apples. Step 2: Green apples:  $4 \times 9 = 36$  apples. Total:  $35 + 36 = 71$  apples.
- Choice B is correct.** (3.MD.C.5b)  $9 \times 7 = 63$  unit squares cover the tile.
- Choice B is correct.** (3.NF.A.2a) More parts means smaller pieces. When the same line is split into more parts, each part is smaller.  $\frac{1}{4} < \frac{1}{3}$ .
- Choice C is correct.** (3.MD.C.7d) When a composite shape is divided into non-overlapping rectangles, the total area equals the sum of the individual rectangle areas. Here:  $12 + 15 = 27$  square units.
- Choice D is correct.** (3.OA.A.3) Divide:  $32 \div 4 = 8$  cookies per friend.
- Choice D is correct.** (3.NF.A.2) This number line has thirds (3 equal parts), so only fractions with denominator 3 or 1 are tick marks.  $\frac{1}{4}$  would need 4 equal parts.
- Choice C is correct.** (3.MD.C.7) Area =  $6 \times 3 = 18$  square units. You can also count by adding:  $3 + 3 + 3 + 3 + 3 + 3 = 18$  (six rows of three units each).
- Choice B is correct.** (3.MD.C.7b) Area = length  $\times$  width =  $9 \times 3 = 27$  square yards.
- Choice C is correct.** (3.NF.A.3b) The rectangle has 8 equal parts and 4 are shaded, so the shaded fraction written in eighths is  $\frac{4}{8}$ .
- Choice A is correct.** (3.NF.A.3)  $\frac{2}{6}$  and  $\frac{1}{3}$  show the same shaded amount. They are equivalent.
- Choice C is correct.** (3.OA.D.9) Both give 12. The multiplication table shows that  $3 \times 4 = 12$  and  $4 \times 3 = 12$ .
- The correct answer is 0 right angles.** (3.G.A.1) A trapezoid can have no right angles.
- Choices A and E are correct.** (3.MD.B.4) Statement A is correct because  $3\frac{1}{2}$  has 3 X's, the most of any value. Statement B is wrong because the total is  $2 + 1 + 3 + 2 + 1 = 9$ . Statement C is wrong because  $3\frac{1}{2}$  is the most common, not the least common. Statement D is wrong because there are 2 measurements at 3 inches and 1 at 4 inches. Statement E is correct because the range is  $4 - 3 = 1$  inch.
- Choice C is correct.** (3.NBT.A.3) 8 rows of 30 seats =  $8 \times 30 = 240$  seats. Multiply  $8 \times 3 = 24$ , then add one zero.
- The correct answer is 30.** (3.OA.A.1) 6 bags with 5 apples each means 6 groups of 5. So  $6 \times 5 = 30$  apples.
- Choice C is correct.** (3.MD.A.1)  $4 : 07 + 18 \text{ min} = 4 : 25 \text{ PM}$ .
- Choice A is correct.** (3.NBT.A.2)  $378 + 215$ : ones  $8 + 5 = 13$  (write 3, carry 1), tens  $7 + 1 + 1 = 9$ , hundreds  $3 + 2 = 5$ . Answer: 593.
- Choice D is correct.** (3.MD.C.6) Area =  $9 \times 3 = 27$  square meters.
- Choice B is correct.** (3.MD.C.5a) If area is 1 square meter and the shape is a unit square, the side length must be 1 meter.
- Choice D is correct.** (3.OA.A.2) There are 9 circles total, divided into 3 equal groups. Each group has 3 circles, so  $9 \div 3 = 3$ .
- Choice D is correct.** (3.OA.B.5) The distributive property lets you break apart a factor:  $8 \times 3 = 8 \times (2 + 1) = 8 \times 2 + 8 \times 1 = 16 + 8 = 24$ .
- The correct answer is 9.** (3.OA.B.6)  $36 \div 4 = 9$  because  $9 \times 4 = 36$ . We find the missing factor in the multiplication fact.
- Choice B is correct.** (3.MD.C.7c) The expanded distributive equation adds the two smaller rectangle areas:  $(10 \times 3) + (10 \times 7) = 30 + 70 = 100$ .
- Choice B is correct.** (3.MD.B.3) Remaining:  $6 - 2 = 4$  symbols. Total crayons:  $4 \times 2 = 8$ .
- Choice B is correct.** (3.NF.A.3c) Any whole number can be written as that number over 1. So  $3 = \frac{3}{1}$ . (D) equals 1, not 3.
- Choice B is correct.** (3.G.A.2)  $\frac{3}{8}$  of a rectangle divided into 8 parts means shading 3 parts.
- Choice B is correct.** (3.NF.A.3d) Same numerator (2): two halves = 1 whole, two thirds = part of a whole. Halves are bigger pieces than thirds. Rule: same numerator, smaller denominator ( $2 < 3$ ) means bigger pieces, so  $\frac{2}{2} > \frac{2}{3}$ .



From a Friend Who Believes in You

---

Hi, Friend!

◇ I just want to say something important: I am proud of you. You did 8 full practice tests. That takes time, hard work, and heart. ◇

★ **Friendly truth:** a test is just one part of your math journey. You are SO much more than a score. The work you did is the real win! ★

**What I Want You to Know**

- **You are smart.** Every test you finished proves it.
- **You are brave.** You tried hard problems.
- **You are growing.** Mistakes taught you new things.
- **You are ready.** The skills are inside you.

**One more thing:** on test day, take a deep breath. Smile. Remember that someone (me!) believes in you. You can do this!

If you want to share something or ask a question, please email me at [jay@testinar.com](mailto:jay@testinar.com).

**Jay Daie**

Your Math Friend

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# PRACTICE TODAY. MASTER TOMORROW.

This book is designed to help **Grade 3** students strengthen their math skills through focused practice and real progress.

- ✓ 8 full-length practice tests
- ✓ Aligned to Grade 3 standards
- ✓ Build confidence and achieve success



## EACH PRACTICE TEST INCLUDES:



Standards-  
Aligned  
Questions



Variety of  
Question  
Types



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Math  
Applications



Step-by-Step  
Progress  
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