

8 Delaware DeSSA GRADE 4



PRACTICE TESTS



Standards-Aligned Review with
Mixed Practice and Answer Key

**COMPREHENSIVE
TEST PREP**

Includes Solutions

8 Delaware DeSSA Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Eight 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!

Eight steady rounds on the First State math route

This book gives you eight 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?

Eight tests, 240 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 6–8	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.

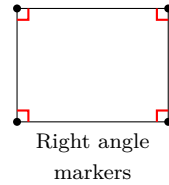


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1) Look at this shape with right angle markers. How many right angles does it have?

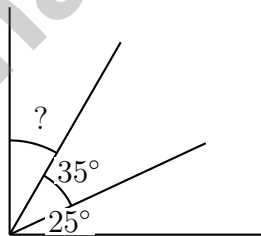


- A. One right angle
- B. Two right angles
- C. Three right angles
- D. Four right angles

2) How many factor pairs does 20 have?

- A. 2
- B. 5
- C. 4
- D. 3

3) A right angle measures 90° . It is divided into three parts: the first is 25° , the second is 35° . What is the measure of the third part?



- A. 30°
- B. 60°
- C. 90°
- D. 10°



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4) Noah is training for a race. Each day he jogs $\frac{1}{2}$ mile. If he trains for 4 days, how far does he jog in total?

A. $\frac{1}{8}$ mile

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

C. 2 miles

D. $\frac{1}{2}$ mile

5) An angle is made up of:

A. Three points

B. Two parallel lines

C. A vertex and two rays

D. Two line segments

6) A paper strip is divided into 3 equal parts. All parts are colored. Show this as a sum of unit fractions.



All 3 parts colored

A. $\frac{1}{3}$

B. $\frac{1}{3} + \frac{1}{3} + \frac{1}{3}$

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

D. $\frac{2}{3}$

7) A pinwheel turns 60° . What fraction of a full turn is this?

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

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

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

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

8) The population of a town is 42,567. Round this number to the nearest thousand.



9) The value of the digit 9 in the thousands place is how many times the value of the digit 9 in the hundreds place?

A. 1,000

B. 100

C. 9 times

D. 10

10) Find $\frac{5}{6} + \frac{1}{6}$.

11) A movie starts at 2:30 p.m. and ends at 4:15 p.m. How long is the movie?

A. 45 minutes

B. 75 minutes

C. 105 minutes

D. 120 minutes

12) Diego used $\frac{9}{10}$ of his water supply. He used $\frac{6}{10}$ on the hike and $\frac{3}{10}$ at camp. Which shows this decomposition?

A. $\frac{6}{10} + \frac{3}{10} = \frac{9}{10}$

B. $\frac{5}{10} + \frac{3}{10} = \frac{8}{10}$

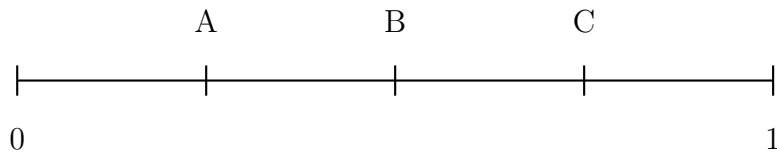
C. $\frac{7}{10} + \frac{1}{10} = \frac{8}{10}$

D. $\frac{8}{10} + \frac{2}{10} = \frac{10}{10}$



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1) Where does 0.5 belong on this number line?



- A. At mark A C. At mark C
 B. At mark B D. Beyond mark C

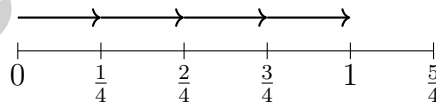
2) Tom has 8 red crayons. He has 3 times as many blue crayons as red crayons. How many blue crayons does Tom have?

- A. 11 C. 32
 B. 20 D. 24

3) What is $3\frac{5}{12} + 2\frac{4}{12}$?

- A. $5\frac{8}{12}$ C. $5\frac{9}{12}$
 B. $6\frac{1}{12}$ D. $6\frac{2}{12}$

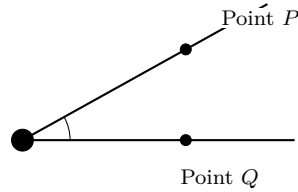
4) Use the number line to find $4 \times \frac{1}{4}$.



- A. $\frac{1}{4}$ C. $\frac{2}{4}$
 B. $\frac{4}{4}$ or 1 D. $\frac{4}{16}$

5) A napkin costs $\frac{1}{2}$ dollar. If you buy 6 napkins, how much do you spend?

- A. $\frac{1}{12}$ dollar C. $\frac{6}{12}$ dollar
 B. $\frac{6}{2}$ dollars (or 3 dollars) D. $\frac{1}{3}$ dollar



6)

Two points are marked on the sides of an angle. Which statement is always true?

- A. Point P is the vertex C. Both are on rays
 B. Point Q is the vertex D. Both are at the vertex

7) A geometric pattern grows with stacked shapes:



How many unit squares are in Figure 4?

- A. 25 C. 20
 B. 18 D. 16

8) Sam measured ribbon lengths in fourths of a meter. She got: $\frac{2}{4}$, $\frac{3}{4}$, $\frac{2}{4}$, $\frac{4}{4}$, $\frac{3}{4}$, $\frac{3}{4}$. When plotted, which measurement has the most X marks?

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



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1) Which number sentence is true?

A. $\frac{4}{6} = \frac{6}{8}$
 B. $\frac{3}{6} = \frac{4}{10}$

C. $\frac{4}{10} = \frac{2}{5}$
 D. $\frac{5}{8} = \frac{10}{12}$

2) Which of the following is NOT a type of angle based on size?

A. Acute
 B. Right

C. Obtuse
 D. Vertex

3) Isabella has 11 colored pencils. Her art teacher has 4 times as many colored pencils. How many colored pencils does her teacher have?

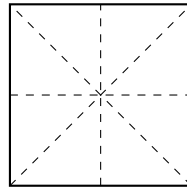
A. 15
 B. 30

C. 40
 D. 44

4) A hiking trail is 8 kilometers long. Convert this distance to meters.

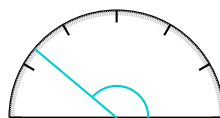


- 5) Look at this square with all lines of symmetry drawn as dashed lines. Are all of these lines correct?



- A. Yes, all are correct
- B. No, only the vertical and horizontal are correct
- C. No, the diagonals are not lines of symmetry
- D. No, the square has no lines of symmetry
- 6) The perimeter of a rectangle is 24 meters. If the length is 7 meters, what is the width?
- A. 3 m
- B. 4 m
- C. 5 m
- D. 6 m
- 7) Sofia has 7 stickers. Liam has 3 times as many. How many more stickers does Liam have than Sofia?

- A. 10
- B. 3
- C. 21
- D. 14



8)

What is the measure of the angle shown?

- A. 130 degrees
- B. 150 degrees
- C. 160 degrees
- D. 140 degrees



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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.G.A.2)** Right angle markers at all four corners show that this figure has four right angles. A quadrilateral with four right angles is a rectangle. The answer is **D**.
- Choice D is correct.** **(4.OA.B.4)** Find every pair that multiplies to 20: 1×20 , 2×10 , 4×5 . That's **3** factor pairs. *Tip:* go in order (1, 2, 3, ...) and stop when the pair starts to repeat.
- Choice A is correct.** **(4.MD.C.7)** The diagram shows three parts forming a right angle. Add the two known parts: $25^\circ + 35^\circ = 60^\circ$. Then subtract: $90^\circ - 60^\circ = 30^\circ$.
- Choice C is correct.** **(4.NF.B.4)** Noah jogs $\frac{1}{2}$ mile each day for 4 days. We multiply: $4 \times \frac{1}{2} = \frac{4}{2} = 2$ miles.
- Choice C is correct.** **(4.G.A.1)** Think of an angle as two rays (the sides) that meet at one point (the vertex). That point is like the hinge, and the rays are like the two flaps of the angle.
- Choice B is correct.** **(4.NF.B.3)** The paper strip is divided into 3 equal parts, and all 3 are colored. So the whole strip is colored: $\frac{3}{3}$. As unit fractions: $\frac{1}{3} + \frac{1}{3} + \frac{1}{3}$.
- Choice A is correct.** **(4.MD.C.5)** Divide the degrees by 360 to get the fraction: $\frac{60}{360} = \frac{1}{6}$ (simplifying by 60). Answer: $\frac{1}{6}$.
- The correct answer is 43,000.** **(4.NBT.A.3)** We're rounding to the nearest thousand. Look at the hundreds digit: 5. Since $5 \geq 5$, round UP! The thousands digit changes to 3, giving us **43,000** people. ✓
- Choice D is correct.** **(4.NBT.A.1)** A digit in the thousands place is worth digit $\times 1,000$; in the hundreds place, it's worth digit $\times 100$. The ratio is $1,000 \div 100 = 10$. ✓
- The correct answer is 1.** **(4.NF.B.3)** Add the numerators: $5 + 1 = 6$. We get $\frac{6}{6}$, which equals **1** whole.
- Choice C is correct.** **(4.MD.A.2)** The movie starts at 2:30 p.m. and ends at 4:15 p.m. From 2:30 to 3:30 is 60 minutes, plus 45 more to 4:15. Total: $60 + 45 = 105$ minutes. The movie is **105** minutes long.
- Choice A is correct.** **(4.NF.B.3)** Diego used $\frac{6}{10}$ on the hike and $\frac{3}{10}$ at camp. Total water used: $6 + 3 = 9$, so $\frac{6}{10} + \frac{3}{10} = \frac{9}{10}$ ✓.
- Choice A is correct.** **(4.NF.C.5)** The hundredths grid is shaded in a checkered pattern. Count the shaded squares: 25 out of 100 means $\frac{25}{100} = 0.25$.
- Choice C is correct.** **(4.OA.B.4)** Count stars: Figure 1 has 1, Figure 2 has 3, Figure 3 has 6. The increases are +2, then +3. Following the pattern, the next increase is +4: $6 + 4 = 10$ stars.
- The correct answer is A, C.** **(4.OA.A.3)** Two steps lead to two true statements! Step 1: $240 \div 5 = 48$ pencils per grade—that matches choice A. Step 2: $48 - 15 = 33$ left after practice—that matches choice C. Choice B (50) and D (35) come from wrong arithmetic, and E confuses "240 distributed" with "300 total."
- Choice A is correct.** **(4.NF.A.1)** Grid A: $\frac{4}{8}$ shaded. Simplify: $\frac{4}{8} = \frac{1}{2}$. Grid B: $\frac{6}{12}$ shaded. Simplify: $\frac{6}{12} = \frac{1}{2}$. Both show the same amount!
- Choice C is correct.** **(4.NF.B.4)** Diego hops in sixths. After 6 hops, he reaches $6 \times \frac{1}{6} = \frac{6}{6} = 1$.
- Choice B is correct.** **(4.NF.B.4)** The fraction $\frac{5}{6}$ means 5 copies of the unit fraction $\frac{1}{6}$, so $\frac{5}{6} = 5 \times \frac{1}{6}$. The answer is **5** copies.
- Choice C is correct.** **(4.NBT.B.6)** Divide: $37 \div 5 = 7$ r2, bring down the 8 to get $28 \div 5 = 5$ r3, bring down the 0 to get $30 \div 5 = 6$. The orchard makes **756** full crates.
- Choice B is correct.** **(4.MD.C.5)** A straight angle is a 180° angle, meaning it turns through **180** one-degree angles.
- Choice B is correct.** **(4.NF.C.5)** 3 tenths = 0.3 and 7 hundredths = 0.07. Add them: $0.3 + 0.07 = 0.37$.
- Choice A is correct.** **(4.NF.B.4)** When we multiply $2 \times \frac{1}{3}$, we're taking 2 copies of $\frac{1}{3}$, which gives us $\frac{2}{3}$. Picture A shows one whole divided into thirds with exactly 2 parts shaded. This is Picture A.
- Choice A is correct.** **(4.MD.C.6)** The ray lines up exactly with the 80° mark. Since 80° is between the 75° and 85° range and less than 90° , it's acute. The answer is **80** degrees.
- Choice A is correct.** **(4.NF.A.1)** All have numerator 4. Larger denominators give smaller pieces: fifths $>$ sixths $>$ eighths. So $\frac{4}{5} > \frac{4}{6} > \frac{4}{8}$.



Hi, Math Athlete!

◇ 8 practice tests done! That's serious training. Your math muscles are strong. You are in great shape for the big test. ◇

★ **Trainers know:** muscle memory is real. The more you practice, the more your brain knows what to do without thinking. You built that muscle memory! ★

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- **Endurance:** TOP! You can finish a long test.
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- **Speed:** JUST RIGHT! You don't rush.
- **Recovery:** GOOD! You bounce back from tough questions.

Trainer tip: on test day, drink water, breathe deeply, and warm up with the easier questions first. Your training will carry you the rest of the way!

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

Jay Daie

Your Math Trainer

8 PRACTICE TESTS. PREPARE. PRACTICE. SUCCEED!

This **Grade 4 Math Practice Tests** book is designed to help students build strong math skills, master essential concepts, and boost confidence for success in the classroom and beyond.

Featuring 8 full-length practice tests, a variety of question types, and detailed answer explanations, this book provides the practice and support students need to improve accuracy, strengthen problem-solving abilities, and achieve their best.

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