

FULL-LENGTH

8

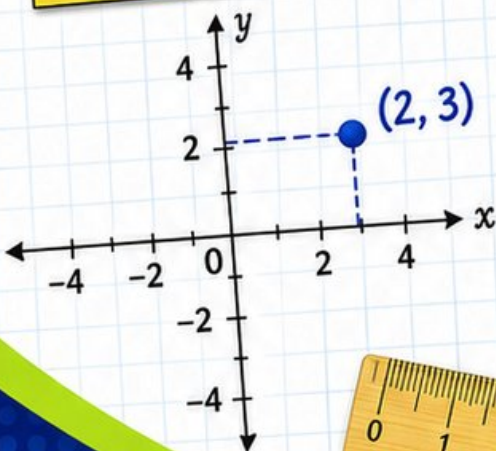
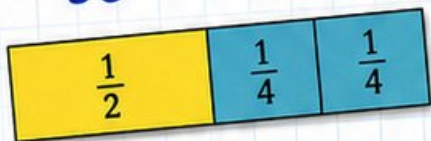
# Delaware DeSSA

GRADE 5

MATH PRACTICE TESTS

Mixed Practice Questions with Answer Key  
for Students, Parents, and Teachers

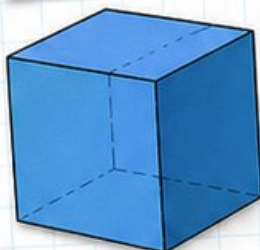
$$36 \div 4 = 9$$



$$2.4 \times 7 = 16.8$$

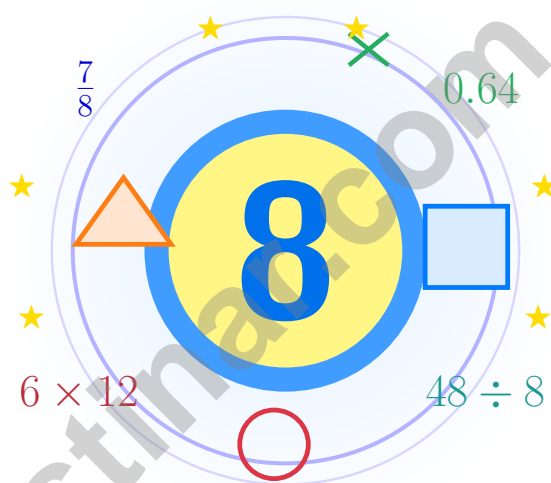
$$7 \times (12 - 5) = 49$$

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100



# 8 Delaware Smarter Balanced Grade 5 Math Practice Tests

*Eight full tests, seven lessons, one stronger mathematician*



Eight full tests, a focused quick 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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# Step Into the Practice Path, Delaware

A eight-step expedition for curious Grade 5 thinkers

## For Every Curious Mind in Delaware

This practice book is your steady companion for eight 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 eight 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.

### Notice

Look closely at what the problem says, shows, and asks.

### Try

Pick a plan and step through it carefully.

### Grow

Use every correction as a clue for what to master next.

**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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Scan me



# Eight Tests, Seven Lessons

A simple routine that turns practice into progress

## Step 1: Step 1

**Warm up with a quick review.**

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

## Step 2: Step 2

**Take one full practice test.**

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

## Step 3: Step 3

**Check your work honestly.**

Circle missed questions and notice which topics keep showing up.

## Step 4: Step 4

**Fix, reflect, and try again.**

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

## A Good 8-Week Delaware Rhythm

<b>Week 1</b>	Take Test 1 like a calm shoreline morning.
<b>Week 2</b>	Take Test 2 and slow down on word problems.
<b>Week 3</b>	Take Test 3 and lift fraction and decimal work.
<b>Week 4</b>	Take Test 4 and pay close attention to labels and units.
<b>Week 5</b>	Take Test 5 and compare your habits with your first test.
<b>Week 6</b>	Take Test 6 and practice staying calm during tricky questions.
<b>Week 7</b>	Take Test 7 with steady, careful, confident work.
<b>Week 8</b>	Take Test 8 and finish the journey with calm, careful, confident work.



# Table of Contents

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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

1 foot (ft) = 12 inches (in.)

1 yard (yd) = 3 feet (ft)

1 yard (yd) = 36 inches (in.)

#### Metric

1 meter (m) = 100 centimeters (cm)

1 centimeter (cm) = 10 millimeters (mm)

1 kilometer (km) = 1,000 meters (m)

### CAPACITY

#### Customary

1 cup (c) = 8 fluid ounces (fl oz)

1 pint (pt) = 2 cups (c)

1 quart (qt) = 2 pints (pt)

1 gallon (gal) = 4 quarts (qt)

#### Metric

1 liter (L) = 1,000 milliliters (mL)

### WEIGHT AND MASS

#### Customary

1 pound (lb) = 16 ounces (oz)

#### Metric

1 kilogram (kg) = 1,000 grams (g)

1 gram (g) = 1,000 milligrams (mg)

### TIME

1 minute (min) = 60 seconds (sec)    1 week = 7 days

1 hour (hr) = 60 minutes (min)    1 year = 12 months

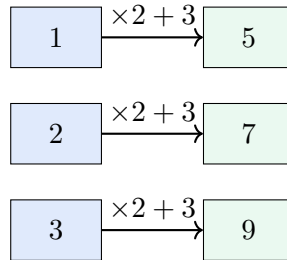
1 day = 24 hours (hr)    1 year = 52 weeks



1) A library has 504 books to arrange equally on 18 shelves. How many books per shelf?

- A. 28                       C. 24  
 B. 26                       D. 22

2) Use the rule shown in the arrow diagram to find which input gives 13.



Which input would give an output of 13?

- A. 4                       C. 7  
 B. 5                       D. 8
- 3) Solve the missing addend problem:  $\frac{3}{4} + ? = \frac{7}{8}$
- A.  $\frac{1}{8}$                        C.  $\frac{5}{8}$   
 B.  $\frac{1}{4}$                        D.  $\frac{13}{8}$

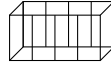
4) Write the fraction  $\frac{12}{18}$  in simplest form.

*Record your answer in the space provided.*

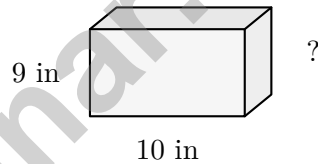


- 5) A rectangular prism has a volume of 24 cubic units. Which dimensions could create this volume?

Rectangular prism



- A. Length 2, width 3, height 3       C. Length 2, width 2, height 5  
 B. Length 2, width 4, height 3       D. Length 3, width 3, height 2
- 6) Which expression represents “four times the sum of 7 and 9”?
- A.  $4 \times (7 + 9)$        C.  $7 \times (9 + 4)$   
 B.  $4 \times 7 + 9$        D.  $7 \times 9 + 4$
- 7) A rectangular aquarium has a volume of 360 cubic inches. If the base is 10 inches by 9 inches, what is the height of the aquarium?



- A. 2 inches       C. 6 inches  
 B. 8 inches       D. 4 inches
- 8) Estimate:  $9\frac{3}{5} - 4\frac{2}{9}$ .
- A. 4       C. 6  
 B. 5       D. 7



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1) Compare without computing:  $5 \times (240 + 80)$  and  $240 + 80$ .

- A. Equal  C. First is 5 less than the second  
 B. First is  $\frac{1}{5}$  of the second  D. First is 5 times the second

2) A composite garden block is made from two non-overlapping rectangular prisms. Prism A is 8 feet long, 2 feet wide, and 4 feet tall. Prism B is 3 feet long, 5 feet wide, and 4 feet tall. What is the total volume?

- A. 64 cubic feet  C. 124 cubic feet  
 B. 60 cubic feet  D. 140 cubic feet

3) Find the volume of a rectangular prism with length 6 cm, width 4 cm, height 3 cm.

*Record your answer in the space provided.*

4) Three-addend total:  $1.23 + 2.45 + 0.89 = ?$

- A. 4.47  C. 4.67  
 B. 5.57  D. 4.57

5) A ribbon is 8.75 inches long. You cut off a piece that is 2.36 inches. How long is the remaining ribbon?

- A. 6.39 in  C. 6.49 in  
 B. 5.98 in  D. 6.59 in



## Grade 5 Mathematics Reference Materials

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1) Compare:  $65 \times 10^2$  vs.  $650 \times 10$ . Which is greater?

- A.  $65 \times 10^2$  is greater  
 B.  $650 \times 10$  is greater  
 C. They are equal  
 D. Cannot be determined

2) A bag of seeds weighs 50 pounds. If you use  $\frac{4}{5}$  of the bag, do you use more or less than 50 pounds?

- A. More than 50 pounds  
 B. Cannot be determined  
 C. Exactly 50 pounds  
 D. Less than 50 pounds

3) Write the value of the digit 7 in the number 4.073.

*Record your answer in the space provided.*



Scaled by  $\frac{1}{2}$



Original: 8 units

4)

If the original length is 8 units and it is scaled by  $\frac{1}{2}$ , what is the new length?

- A. 2 units  
 B. 4 units  
 C. 6 units  
 D. 12 units



## Grade 5 Mathematics Reference Materials

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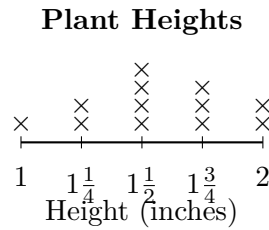
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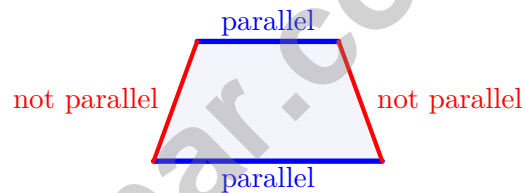
1) The line plot shows plant heights (in inches):



How many plants were exactly  $1\frac{1}{2}$  inches tall?

- |                               |                               |
|-------------------------------|-------------------------------|
| <input type="checkbox"/> A. 3 | <input type="checkbox"/> C. 5 |
| <input type="checkbox"/> B. 4 | <input type="checkbox"/> D. 6 |

2) Look at the figure. Which description matches it best?

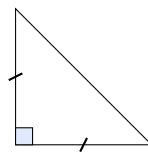


- |   |                                       |
|---|---------------------------------------|
| <input type="checkbox"/> A. Parallelogram | <input type="checkbox"/> C. Rectangle |
| <input type="checkbox"/> B. Trapezoid     | <input type="checkbox"/> D. Rhombus   |

3) What is  $4.2 \times 100$ ?

- |                                 |                                   |
|---------------------------------|-----------------------------------|
| <input type="checkbox"/> A. 4.2 | <input type="checkbox"/> C. 420   |
| <input type="checkbox"/> B. 42  | <input type="checkbox"/> D. 4,200 |

4) Which name describes a triangle with two equal sides and one right angle?



- |   |  |
|---|--|
| <input type="checkbox"/> A. Isosceles acute | <input type="checkbox"/> C. Scalene obtuse |
| <input type="checkbox"/> B. Right isosceles | <input type="checkbox"/> D. Equilateral    |



## 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.**

Testinar.com



## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- 1) **Choice A is correct.** (5.NBT.B.6)  $504 \div 18 = 28$  books per shelf. Check:  $18 \times 28 = 504$ .
- 2) **Choice B is correct.** (5.NBT.B.6) Using the rule  $\times 2 + 3$ : when input is 5, output =  $5 \times 2 + 3 = 13$ .
- 3) **Choice A is correct.** (5.NF.A.1) Rewrite  $\frac{3}{4}$  as  $\frac{6}{8}$ . Since  $\frac{6}{8} + \frac{1}{8} = \frac{7}{8}$ , the missing addend is  $\frac{1}{8}$ .
- 4) **The correct answer is  $\frac{2}{3}$ .** (5.NF.A.2) Divide both by 6 (the GCF):  $\frac{12 \div 6}{18 \div 6} = \frac{2}{3}$ .
- 5) **Choice B is correct.** (5.NF.A.2)  $2 \times 4 \times 3 = 24$  cubic units. Choice A:  $2 \times 3 \times 3 = 18$ . Choice C:  $2 \times 2 \times 5 = 20$ . Choice D:  $3 \times 3 \times 2 = 18$ .
- 6) **Choice A is correct.** (5.OA.A.2) The phrase “the sum of 7 and 9” means  $(7 + 9)$ . Four times that sum is  $4 \times (7 + 9)$ .
- 7) **Choice D is correct.** (5.OA.A.2) The base area is  $10 \times 9 = 90$  square inches. Since  $360 \div 90 = 4$ , the height is 4 inches.
- 8) **Choice C is correct.** (5.NF.A.2)  $9\frac{3}{5} \approx 10$  and  $4\frac{2}{9} \approx 4$ . So  $9\frac{3}{5} - 4\frac{2}{9} \approx 10 - 4 = 6$ .
- 9) **Choice D is correct.** (5.NF.A.2) Sharing  $\frac{1}{4}$  cup into 2 equal parts means  $\frac{1}{4} \div 2 = \frac{1}{8}$  cup for each mini loaf.
- 10) **Choice A is correct.** (5.NF.A.1)  $12 - 5 = 7$  and  $\frac{10}{12} - \frac{8}{12} = \frac{2}{12} = \frac{1}{6}$ . Result:  $7\frac{1}{6}$ .
- 11) **Choice B is correct.** (5.G.A.2) For input 2: first output is 10 (position 2 in 5, 10, 15, 20), second output is 6 (position 2 in 3, 6, 9, 12).
- 12) **Choice C is correct.** (5.NBT.A.2) Multiplying by 10 shifts digits left: 3 to hundreds, 4 to tens, 0 in ones place.
- 13) **Choice B is correct.** (5.NF.B.4)  $10 \times \frac{2}{5} = \frac{20}{5} = 4$ .
- 14) **Choice D is correct.** (5.NF.B.4) The origin is the point where the x-axis and y-axis intersect, labeled as  $(0, 0)$ .
- 15) **Choice D is correct.** (5.MD.C.5) Use the rectangular-prism volume formula:  $8 \times 5 \times 4 = 160$ . So the volume is 160 cubic meters.
- 16) **Choice A is correct.** (5.G.B.4) A rhombus is a parallelogram because both pairs of opposite sides are parallel.
- 17) **Choice C is correct.** (5.NF.B.7c) The one-eighth strip is the amount being shared. So the matching equation is  $\frac{1}{8} \div 2 = n$ .
- 18) **Choice D is correct.** (5.NBT.A.2) Dividing by 10 moves the decimal point 1 place left:  $4.5 \div 10 = 0.45$ .
- 19) **Choice C is correct.** (5.NBT.A.2) Parentheses come first:  $4 + 5 = 9$ . Then  $36 \div 9 = 4$ , and  $4 + 6 = 10$ .
- 20) **Choices A, B are correct.** (5.OA.A.1) For these matching terms, Pattern Y is 3 times Pattern X. C and D break that rule.
- 21) **Choice D is correct.** (5.MD.C.5) Adult tickets:  $3 \times 22.50 = 67.50$  dollars. Student tickets:  $5 \times 15.00 = 75.00$  dollars. Total:  $67.50 + 75.00 = 142.50$  dollars.
- 22) **Choice A is correct.** (5.NF.B.7c)  $\frac{1}{5} \div 4 = \frac{1}{5} \times \frac{1}{4} = \frac{1}{20}$ .
- 23) **Choice A is correct.** (5.NF.B.4b)  $\frac{3}{5} \times \frac{3}{5} = \frac{9}{25}$ . The overlap covers 9 squares out of 25 total.
- 24) **Choice C is correct.** (5.MD.C.4) A 5 by 3 layer has 15 cubes. With 4 layers,  $15 \times 4 = 60$  unit cubes.
- 25) **The correct answer is  $23\frac{1}{2}$  in.** (5.MD.B.2) Add the lengths represented by the line plot:  $2 \times 3\frac{1}{2} = 7$ ,  $3 \times 4 = 12$ , and  $1 \times 4\frac{1}{2} = 4\frac{1}{2}$ . The total is  $7 + 12 + 4\frac{1}{2} = 23\frac{1}{2}$  inches.
- 26) **Choice C is correct.** (5.NBT.A.4) Compare distances from 0.5: 0.45 is 0.05 away, 0.489 is 0.011 away, 0.501 is 0.001 away, and 0.55 is 0.05 away. The closest number is 0.501.
- 27) **Choice B is correct.** (5.G.B.4) The tick marks on two sides show those sides are equal, making this an isosceles triangle.
- 28) **Choice B is correct.** (5.NF.B.6)  $\frac{3}{7} \times \frac{7}{9} = \frac{21}{63}$ , which simplifies to  $\frac{1}{3}$  liter.
- 29) **Choice C is correct.** (5.NBT.B.7) A:  $100 \div 10 = 10$ ; B:  $8.5 \div 0.5 = 17$ ; C:  $8.5 \div 2 = 4.25 < 10$ ; D:  $45 \div 4 = 11.25$ .
- 30) **Choice C is correct.** (5.NBT.B.7) Both points have the same  $y$ -coordinate (7), forming a horizontal line. The distance is  $9 - 2 = 7$  units.
- 31) **Choice D is correct.** (5.NF.B.7c)  $2 \div \frac{1}{5} = 2 \times 5 = 10$ .
- 32) **Choice B is correct.** (5.NF.B.7c) Multiplying by 100 moves the decimal two places right. Starting at 6.73, that gives 673.



## Dear Hero of This Story,

◇ Once upon a time, there was a brave Grade 5 student who decided to take 8 practice tests. At first, the problems were tough. But the student kept showing up, kept trying, and kept learning. Slowly, the tough problems became easier. The student's confidence grew. By the time the 8<sup>th</sup> test was finished, that student had become the hero of their own math story. That student is you. ◇

★ **Storytellers know:** every great story has a hard middle. The hard middle is where the hero grows. You've lived your hard middle, and now your story is heading toward a strong ending: a confident test day. ★

### Your Hero's Toolkit

- **Brave Heart:** You face hard problems instead of running.
- **Sharp Mind:** You think carefully before you act.
- **Steady Hand:** You write neatly and check your work.
- **Kind Spirit:** You're patient with yourself when you make mistakes.

**Storyteller's tip:** when you sit down on test day, remember the hero you've become. The chapters before this moment have made you stronger. Now, write your best chapter yet.

If you'd like to share your experience or have questions, please email me at [reza@testinar.com](mailto:reza@testinar.com). I'd love to hear from you!

**Reza Nazari & Jay Daie**

Your Math Storyteller (The Best Pages Are Ahead)

$45 \div 5 = ?$

# PRACTICE TODAY.

$\frac{3}{5} + \frac{1}{10} = ?$



## ACHIEVE TOMORROW!



$3^2 + 4^2 = 25$

This book includes **8** full-length **Grade 5** math practice tests to help students master essential skills, build confidence, and achieve success. Each test is carefully designed to reflect real math standards and cover a variety of question types with detailed answer explanations.

$7x - 4 = 17$

$1\frac{1}{2} + 2\frac{1}{3} = ?$

## 8 FULL-LENGTH MATH PRACTICE TESTS



### REALISTIC PRACTICE

Tests mirror Grade 5 math standards and real assessment formats.



### ANSWER KEY INCLUDED

Detailed answer explanations help students understand and learn.



### BUILD CONFIDENCE & SKILLS

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### IMPROVE & TRACK PROGRESS

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### ACHIEVE SUCCESS

Boosts test readiness and helps students achieve their best results.

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- ✓ Fractions & Decimals
- ✓ Algebraic Thinking
- ✓ Geometry
- ✓ Measurement & Data
- ✓ Number Patterns
- ✓ Word Problems
- ✓ Ratio & Proportion
- ✓ Perimeter, Area & Volume
- ✓ Graphing & Data Analysis

...and More!



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