

# 7

# Connecticut

## Smarter Balanced

### GRADE 5

# MATHEMATICS

## PRACTICE TESTS

✓  
PRACTICE  
PREPARE  
SUCCEED

★★★

Comprehensive Standards-Aligned  
Review for Strong Grade 5  
Math Performance



$$\frac{3}{4} + \frac{2}{4} = \frac{5}{4}$$

$$2.4 + 1.6 = 4.0$$

$$A = \frac{bh}{2}$$



**7 FULL-LENGTH  
PRACTICE TESTS**

Realistic style  
questions



**STANDARDS-  
ALIGNED**

Covers all Grade 5  
standards



**BUILD CONFIDENCE**

Target weak areas  
and improve  
performance



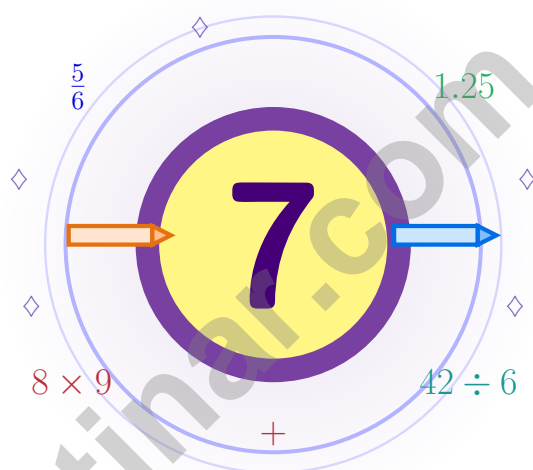
**ACHIEVE SUCCESS**

Develop skills,  
stay prepared,  
excel on test day

★ PRACTICE TODAY. PERFORM TOMORROW. SUCCEED FOREVER. ★

# 7 Connecticut Smarter Balanced Grade 5 Math Practice Tests

*Seven chances to grow your math mind one careful step at a time*



Seven full tests, a concise review, and helpful support that turns Grade 5 practice in The Constitution State into steady, confident growth from page one to the final check.

**Jay Daie and Reza Nazari**



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# Connecticut, Steady Practice Starts Here

Seven full tests, seven lessons, one stronger mathematician

## To Every Math Brain in Connecticut

This practice book is your steady companion for seven tests, not a place to be perfect. Strong math practice is like a New England harbor: small, well-kept, and ready for any kind of weather.

Use these seven 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 Connecticut 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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# Use This Book Like a Trail Guide

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 7-Week Connecticut Rhythm

<b>Week 1</b>	Take Test 1 and chart your harbor.
<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 and steer in calmly with neat work and careful checks.



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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)

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

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### TIME

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

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



1) Without calculating the products, which expression is greatest?

A.  $18 \times 25$

C.  $17 \times 25$

B.  $18 \times 26$

D.  $17 \times 26$

2) Evaluate:  $15 + 3 \times (7 - 2)$

A. 12

C. 30

B. 20

D. 90

3) How many right angles does a rectangle have?


A. 0

C. 3

B. 2

D. 4

4) A cubic unit is defined as:

  
 $1 \times 1 \times 1$

A. A cube with all sides 1 unit long

C. Any cube, regardless of size

B. A flat square with area 1 square unit

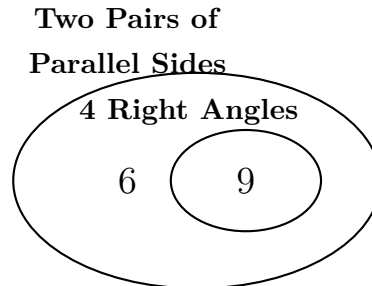
D. A line segment of length 1

5) For the points  $(1, 2)$ ,  $(2, 4)$ ,  $(3, 6)$ , each Y value is how many times X?

*Record your answer in the space provided.*



- 6) A Venn diagram shows quadrilaterals with 4 right angles inside the group of quadrilaterals with two pairs of parallel sides:



Why is the smaller circle completely inside the larger circle?

- A. No quadrilateral can have four right angles.
- B. A rectangle is never a parallelogram.
- C. A square has only three sides.
- D. A quadrilateral with four right angles also has two pairs of parallel sides.
- 7) The first input is 1 and the first output is 1. The output doubles each time. Give ordered pairs (input, output) for inputs 1, 2, 3, and 4.
- A. (1, 2), (2, 4), (3, 6), (4, 8)
- B. (1, 1), (2, 2), (3, 4), (4, 8)
- C. (1, 2), (2, 4), (3, 8), (4, 16)
- D. (1, 1), (2, 3), (3, 5), (4, 7)
- 8) What is  $87.6 \div 100$ ?
- A. 8.76
- B. 0.087
- C. 876
- D. 0.876



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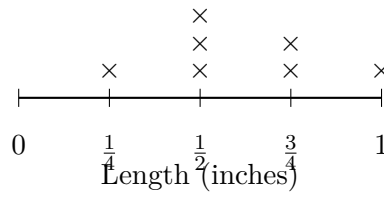
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1) The line plot displays thread lengths (in inches) for sewing projects:

**Thread Lengths**



How many threads are less than  $\frac{3}{4}$  inch?

- A. 4
- B. 5

- C. 6
- D. 7

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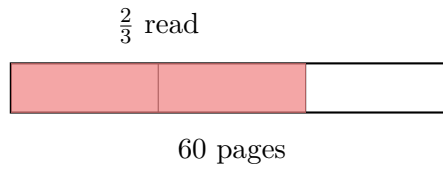
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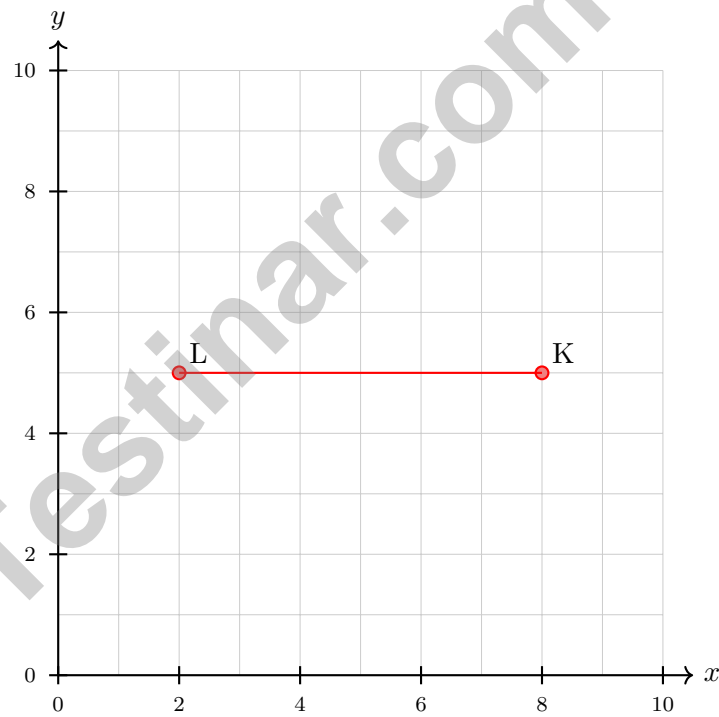
1 day = 24 hours (hr)    1 year = 52 weeks



- 1) A book has 60 pages. If you read  $\frac{2}{3}$  of the book, how many pages have you read?



- A. 20 pages                       C. 40 pages  
 B. 30 pages                       D. 50 pages
- 2) Point K is at (8, 5) and point L is at (2, 5). What is the distance between these two points?



- A. 4 units                       C. 8 units  
 B. 5 units                       D. 6 units



## 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.**

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## Practice Test Answers and Explanations

### Practice Test 1 Answers and Explanations

- Choice B is correct.** **(5.OA.A.2)** Both factors are largest in option B:  $18 > 17$  and  $26 > 25$ , so  $18 \times 26$  is greatest.
- Choice C is correct.** **(5.OA.A.1)** The parentheses make  $7 - 2 = 5$ . Then multiply before adding:  $3 \times 5 = 15$ , so the expression becomes  $15 + 15 = 30$ .
- Choice D is correct.** **(5.G.B.3)** A rectangle has 4 right angles (one at each corner). All angles measure 90 degrees.
- Choice A is correct.** **(5.MD.C.3b)** A cubic unit is a cube where each edge measures exactly 1 unit. It has volume of 1 cubic unit.
- The correct answer is 2.** **(5.G.A.2)** For each point,  $2 \div 1 = 2$ ,  $4 \div 2 = 2$ , and  $6 \div 3 = 2$ .
- Choice D is correct.** **(5.G.B.4)** Rectangles and squares have four right angles, and their opposite sides are parallel.
- Choice B is correct.** **(5.G.A.2)** The output starts at 1 for input 1, then doubles each time. That gives outputs 1, 2, 4, 8, paired with inputs 1 through 4.
- Choice D is correct.** **(5.NBT.A.2)** Dividing by 100 moves the decimal 2 places left:  $87.6 \rightarrow 8.76 \rightarrow 0.876$ .
- Choice A is correct.** **(5.NBT.B.7)** Add:  $1 + 1.8 = 2.8$ ; then  $2.8 + 1.25 = 4.05$  (hundredths:  $0 + 5 = 5$ ; tenths:  $8 + 2 = 10$ , regroup; ones:  $2 + 1 + 1 = 4$ ).
- Choice C is correct.** **(5.NF.B.6)**  $\frac{3}{8}$  of 16 is  $\frac{3}{8} \times 16 = 6$ . Malik eats 6 brownie pieces.
- Choice C is correct.** **(5.MD.A.1)** Convert 5 feet to inches:  $5 \times 12 = 60$  inches. So 5 feet = 60 inches.
- Choice C is correct.** **(5.NBT.A.2)** A is true; B is true; C is false ( $5,400 \div 100 = 54$ ); D is true.
- Choice D is correct.** **(5.OA.B.3)** Pattern V is double Pattern U, then 1 more. When U is 4,  $2 \times 4 + 1 = 9$ .
- Choice C is correct.** **(5.G.A.1)** One repeat moves from (0,0) to (2,3). A second repeat adds another 2 to x and another 3 to y, giving (4,6).
- Choice B is correct.** **(5.NBT.A.4)** 7.19 has a tenths digit of 1 and hundredths digit of 9. Since  $9 \geq 5$ , round the tenths up from 1 to 2, giving 7.2.
- Choice D is correct.** **(5.NBT.A.2)**  $8.5 \times 10^3 = 8.5 \times 1000 = 8500$ , so the missing number is 8.5.
- Choice C is correct.** **(5.MD.B.2)** There are four ribbons at  $\frac{3}{4}$  inch. Their total length is  $4 \times \frac{3}{4} = 3$  inches.
- Choices A, B are correct.** **(5.NBT.A.2)**  $3.65 \times 10 = 36.5$  and  $0.365 \times 100 = 36.5$ . C and D both give 365.
- The correct answer is 2.5.** **(5.MD.A.1)**  $2,500 \div 1,000 = 2.5$  kg. Since 1,000 grams make 1 kilogram, divide by 1,000.
- Choice C is correct.** **(5.NF.B.7c)** Divide a whole number by a unit fraction:  $3 \div \frac{1}{2} = 3 \times 2 = 6$  glasses.
- Choice A is correct.** **(5.NF.B.4b)** The blue region shows 3 out of 7 columns. The red region shows 2 out of 4 rows. The overlap is  $\frac{3}{7} \times \frac{1}{2} = \frac{3}{14}$ .
- The correct answer is  $3\frac{5}{6}$ .** **(5.NF.A.1)** Add wholes:  $1 + 2 = 3$ . Add fractions:  $\frac{3}{6} + \frac{2}{6} = \frac{5}{6}$ . Total:  $3\frac{5}{6}$ .
- The correct answer is  $7 \div \frac{1}{2} = 14$ .** **(5.NF.B.7c)** We are counting how many halves fit in 7 wholes, so  $7 \div \frac{1}{2} = 14$ . Accept an equivalent division equation or the final value.
- Choice B is correct.** **(5.MD.C.5a)** The base area tells how many square units are in one layer. Multiplying by the height counts all the layers, so  $V = B \times h$ .
- Choice C is correct.** **(5.NF.A.1)**  $\text{LCM}(5,3,15) = 15$ .  $\frac{1}{5} = \frac{3}{15}$ ,  $\frac{1}{3} = \frac{5}{15}$ ,  $\frac{1}{15} = \frac{1}{15}$ . Sum =  $\frac{3}{15} + \frac{5}{15} + \frac{1}{15} = \frac{9}{15} = \frac{3}{5}$  of the wall.
- Choice A is correct.** **(5.G.B.4)** Each side has three tick marks, indicating all three sides are equal in length, making this equilateral.
- Choice B is correct.** **(5.NBT.B.6)**  $1,080 \div 15 = 72$  tickets per day. Check:  $15 \times 72 = 1,080$ .
- Choice C is correct.** **(5.NF.B.7c)**  $5 \div \frac{1}{4} = 5 \times 4 = 20$ . It takes 20 jumps of  $\frac{1}{4}$  to reach 5.
- Choice D is correct.** **(5.NF.A.2)** The point is at  $\frac{1}{2}$ . The equivalent form shown is  $\frac{2}{4} = \frac{1}{2}$ .
- Choice B is correct.** **(5.NBT.A.1)** "Three and eight hundredths" means  $3 + \frac{8}{100} = 3.08$ .
- The correct answer is  $(6 \times 10) \div 2$ .** **(5.OA.A.2)** The result of  $6 \times 10$  is divided by 2, so write  $(6 \times 10) \div 2$ . Equivalent expressions that preserve this order are also acceptable.



Smart Habits

---

**Dear Student,**

★ Seven tests helped you practice smart habits. Smart habits are small actions that make a big difference—like reading carefully, writing steps, and checking answers. ★

◇ **Here's the truth:** students who use good habits often outperform students who rush, even if they are “fast.” ◇

**Four Helpful Habits**

- **Neat work:** line up numbers and keep steps clear.
- **Circle units:** minutes, dollars, inches, and more.
- **Estimate:** a quick estimate catches big mistakes.
- **Double-check:** reread the question before you finish.

**You practiced these habits** across seven tests—now use them with confidence.

Email me at [reza@testinar.com](mailto:reza@testinar.com) anytime.

**Reza Nazari & Jay Daie**

Your Math Coaches (Good Habits = Success)

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# PRACTICE TODAY. PERFORM TOMORROW.

Success in math starts with practice! This book provides the **practice, confidence, and skills** your child needs to excel on the Grade 5 Math test and beyond.

## KEY BENEFITS:



### TARGETED PRACTICE

Focus on the most important Grade 5 math skills.



### STANDARD-ALIGNED

All tests align with state standards for Grade 5.



### BUILD CONFIDENCE

Strengthen skills, reduce test anxiety, and boost confidence.



### IMPROVE PERFORMANCE

Timed practice helps improve speed and accuracy.



### ACHIEVE SUCCESS

Develop strong test-taking skills and achieve your best score!

## PERFECT FOR:

✓ Classroom Practice

✓ Homework Help

✓ Test Preparation

✓ Summer Learning

✓ On-the-Go Practice

✓  
PRACTICE  
PREPARE  
SUCCEED



## STRONG SKILLS. BRIGHT FUTURE.

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