

8

FULL-LENGTH

Connecticut

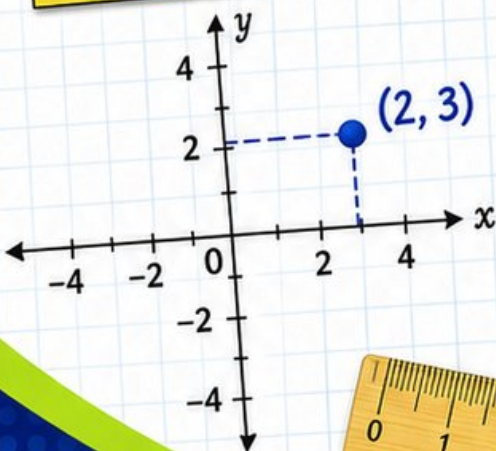
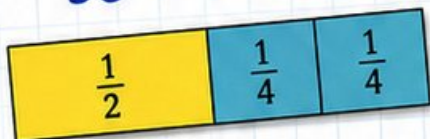
Smarter Balanced

GRADE 5

MATH PRACTICE TESTS

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

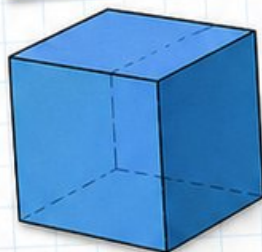
$$36 \div 4 = 9$$



$$2.4 \times 7 = 16.8$$

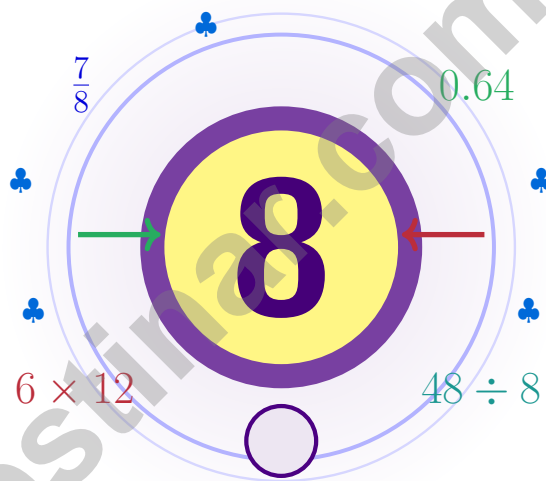
$$7 \times (12 - 5) = 49$$

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 Connecticut Smarter Balanced Grade 5 Math Practice Tests

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



Eight full tests, a focused quick 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, Your Eight-Test Trail Begins

Eight full tests woven into one calm, steady practice path

Dear Connecticut Math Trail Crew

This practice book is your steady companion for eight 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 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.

Read

Read with care – math problems hide their gifts.

Try

Try a strategy that fits the size of the numbers.

Reflect

Reflect after each problem to lock the lesson in.

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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Scan me



Your Eight-Step Trail Plan

A simple routine that turns practice into progress

Step 1: Notice

Notice the structure: warm-up, test, review, repair.

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

Step 2: Practice

Practice one full test in quiet conditions.

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

Step 3: Honest Check

Check honestly without rushing.

Circle missed questions and notice which topics keep showing up.

Step 4: Polish

Polish the rough spots before the next test.

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



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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

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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 shop sold items for \$7.45, \$2.68, and \$3.82. What was the total revenue?

A. \$13.85

C. \$14.05

B. \$13.95

D. \$14.95

2) A gardener buys soil in bags. Each bag weighs 25 pounds. She buys 12 bags for one project and 8 bags for another. What is the total weight in tons? Use 1 ton = 2,000 pounds.

A. 4 tons

C. 2 tons

B. $\frac{1}{2}$ ton

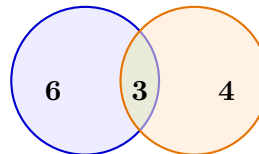
D. $\frac{1}{4}$ ton

3) Find the difference: $6\frac{1}{4} - 2\frac{5}{8}$.

Record your answer in the space provided.

4) A Venn diagram has one circle for rectangles and one circle for rhombuses. There are 6 rectangles only, 4 rhombuses only, and 3 squares in the intersection. How many figures are rectangles?

Rectangles Rhombuses



A. 3

C. 10

B. 13

D. 9



- 5) A prism has 8 cubes in each row, 3 rows per layer, and 2 layers. Total cubes?

Record your answer in the space provided.

- 6) Using the definition that isosceles means at least two equal sides, which statement is true?

- A. Every isosceles triangle is equilateral C. Every scalene triangle is obtuse
 B. Every right triangle is isosceles D. Every equilateral triangle is isosceles

- 7) A runner training for a race completed 8.75 miles. She plans to run 12.5 miles. How many miles are left?

- A. 3.85 miles C. 4.15 miles
 B. 3.95 miles D. 3.75 miles

- 8) A metric conversion: 1.5 meters = _____ centimeters. (There are 100 cm in 1 m, so multiply by 100.) Which is correct?

- A. $1.5 \times 10 = 15$ cm C. $1.5 \times 1000 = 1500$ cm
 B. $1.5 \div 100 = 0.015$ cm D. $1.5 \times 100 = 150$ cm



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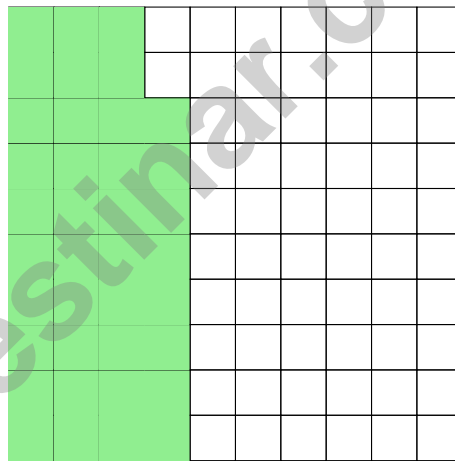
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- 1) A store receives a delivery of juice. Each bottle holds 32 fluid ounces. If the store receives 12 bottles, how many gallons of juice is that? (1 gallon = 128 fl oz)
- A. 2 gallons
- B. 6 gallons
- C. 4 gallons
- D. 3 gallons
- 2) Check the work: A student rewrote $\frac{2}{3}$ and $\frac{1}{4}$ with a common denominator and got $\frac{8}{12}$ and $\frac{3}{12}$. What is true?
- A. The numerators were added instead of multiplied
- B. The LCD was found correctly but only one fraction was rewritten
- C. Both calculations are correct
- D. The LCD should be 8 instead
- 3) Decimal-grid visual: 38 shaded squares (out of 100). Write the decimal.



- A. 0.38
- B. 0.83
- C. 3.8
- D. 38



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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.NBT.B.7) Add: $\$7.45 + \$2.68 = \$10.13$; then $\$10.13 + \$3.82 = \$13.95$.
- Choice D is correct.** (5.NBT.B.7) Total bags: $12 + 8 = 20$ bags. Weight: $20 \times 25 = 500$ pounds. Since 500 is one fourth of 2,000, the total weight is $\frac{1}{4}$ ton.
- The correct answer is $3\frac{5}{8}$.** (5.NF.A.1) $6\frac{1}{4} = 6\frac{2}{8} = 5\frac{10}{8}$. Subtract: $(5 - 2) + (\frac{10}{8} - \frac{5}{8}) = 3\frac{5}{8}$.
- Choice D is correct.** (5.NF.A.1) Rectangles include the rectangle-only region and the intersection: $6 + 3 = 9$.
- The correct answer is 48.** (5.MD.C.4) There are 8 cubes in each row and 3 rows per layer, so each layer has 24 cubes. Two layers make $24 \times 2 = 48$ cubes.
- Choice D is correct.** (5.MD.C.4) An equilateral triangle has three equal sides, so it also has at least two equal sides, making it isosceles. However, not all isosceles triangles are equilateral.
- Choice D is correct.** (5.NBT.B.7) Line up decimal points and subtract place by place. $12.50 - 8.75 = 3.75$ miles. This confirms the answer.
- Choice D is correct.** (5.NBT.A.2) To convert meters to centimeters, multiply by 100: $1.5 \times 100 = 150$ cm.
- Choice D is correct.** (5.NF.B.4b) Area = $\frac{5}{6} \times \frac{3}{5} = \frac{15}{30} = \frac{1}{2}$ square mile.
- Choice D is correct.** (5.G.B.4) Figure A is a square (special parallelogram). Figure B is a general parallelogram. Both are quadrilaterals with two pairs of parallel sides, making them both parallelograms.
- Choice B is correct.** (5.G.A.2) Starting at (2, 1), add the width: $2 + 5 = 7$ for the x -coordinate. Add the height: $1 + 3 = 4$ for the y -coordinate. The top-right vertex is at (7, 4).
- Choice C is correct.** (5.MD.B.2) Count X marks at 6 and 7. That is $2 + 2 = 4$ baskets with 6 or more apples.
- Choice C is correct.** (5.OA.A.1) First find the value inside the parentheses: $4 + 6 = 10$. Then $3 \times 10 = 30$, and $60 - 30 = 30$.
- The correct answer is 1000.** (5.OA.A.1) 10^3 is a 1 followed by 3 zeros: 1,000.
- Choice B is correct.** (5.NBT.A.2) $\frac{1}{2} \times \frac{2}{3} = \frac{2}{6} = \frac{1}{3}$ cup.
- Choice A is correct.** (5.NF.B.5a) $8 \times \frac{2}{3} = \frac{16}{3} = 5\frac{1}{3}$. The product is less than 8 because the scaling factor is less than 1.
- The correct answer is 12.** (5.NBT.A.2) Dividing by 100 removes two zeros: $1,200 \rightarrow 12$.
- Choice C is correct.** (5.NBT.A.2) Use the rule output = input \times input: $1 \times 1 = 1$, $2 \times 2 = 4$, and $3 \times 3 = 9$.
- Choice B is correct.** (5.NF.B.7c) $\frac{1}{8} \div 2 = \frac{1}{8} \times \frac{1}{2} = \frac{1}{16}$.
- Choices A, B, C are correct.** (5.MD.C.5c) Volume is measured in cubic units. For non-overlapping rectangular prisms, multiply each part's dimensions and add the part volumes.
- Choice A is correct.** (5.NBT.A.2) Move the decimal 1 place left: $1.9 \div 10 = 0.19$.
- Choice D is correct.** (5.NBT.A.2) Each Gamma value is 5 times the matching Delta value: $1 \times 5 = 5$, $2 \times 5 = 10$, and so on.
- Choice C is correct.** (5.MD.A.1) Convert all to mL: A = 800 mL, B = 850 mL, C = 750 mL. Since $750 < 800 < 850$, Sample C is smallest.
- Choice B is correct.** (5.NF.A.2) Common denominator is 35: $\frac{3}{7} = \frac{15}{35}$ and $\frac{1}{5} = \frac{7}{35}$. So $\frac{15}{35} - \frac{7}{35} = \frac{8}{35}$ gallon.
- Choice C is correct.** (5.MD.C.5) Choose the operation from the story, then keep the unit with the answer. Multiply: $125 \times 6 = 750$ miles. This confirms the answer.
- Choice B is correct.** (5.MD.C.5) The base area is $10 \times 3 = 30$ square centimeters. Since $120 \div 30 = 4$, the height is 4 cm.
- Choice D is correct.** (5.G.A.2) Pairs are (2,1), (4,3), (6,5), (8,7). The third pair is (6, 5).
- Choice D is correct.** (5.NBT.A.3b) All have ones place = 5. Compare tenths: 5.001 and 5.01 have 0; 5.1 and 5.11 have 1. Then hundredths and thousandths refine order.
- Choice B is correct.** (5.NF.B.7c) Use total amount divided by the size of one piece. The equation is $10 \div \frac{1}{2} = n$.
- Choice B is correct.** (5.OA.B.3) Keep doubling after 80: the 6th term is 160, and the 7th term is 320.
- Choice D is correct.** (5.OA.B.3) Volume = $9 \times 8 \times 3 = 216$ cubic meters.



Star Player Pep Talk

To My Star Math Player,

◇ 8 practice tests. Every one of them was a chance to grow, and every one of them you took. That's why your math game is at a new level today. ◇

★ **Star players know:** confidence comes from preparation. You can't fake confidence. You build it. You built yours through these 8 tests. So when test day shows up, your confidence will be real, because your work was real. ★

Star Player Stats

- **Practice Hours:** OFF THE CHARTS!
- **Skill Range:** BROAD! You can handle different problem types.
- **Mental Toughness:** HIGH! You don't quit on hard problems.
- **Game-Day Plan:** READY! You know your strategies.

Star tip: the best players don't try to be perfect on every play. They focus on the next play. Do that on the test. One problem at a time. One small win at a time. You add them up to a great score.

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

Reza Nazari & Jay Daie

Your Math Coaches (Go Star!)

$45 \div 5 = ?$

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

Strengthens problem-solving abilities and reinforces key math concepts.



IMPROVE & TRACK PROGRESS

Identify strengths and focus on areas that need improvement.



ACHIEVE SUCCESS

Boosts test readiness and helps students achieve their best results.

COVERS ALL KEY GRADE 5 MATH TOPICS

- ✓ Whole Numbers & Operations
- ✓ 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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for more Grade 5 math resources and practice materials!



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CREATED BY EDUCATORS



ALIGNED TO STANDARDS

Great for Students, Parents, and Teachers!

Practice with purpose. Succeed with confidence!