

9

$$256 \div 8 = 32$$



$$48 \times 7 = 336$$

Connecticut Smarter Balanced

GRADE 4

MATH

PRACTICE TESTS

Standards-Aligned Review with
Mixed Practice and Answer Key



**9 FULL-LENGTH
PRACTICE TESTS**



**STANDARDS-ALIGNED
REVIEW**



**MIXED PRACTICE
BUILD SKILLS & CONFIDENCE**



**ANSWER KEY
FOR ALL TESTS**



$$\frac{3}{4} + \frac{1}{4} = 1$$



$$725 - 358 = 367$$

PREPARE
PRACTICE
SUCCEED
PERFORM

**PRACTICE TODAY.
SUCCEED TOMORROW.**

9 Connecticut Smarter Balanced Grade 4 Math Practice Tests

Standards-Aligned Review with Mixed Practice and Answer Key



Nine complete 30-question Grade 4 practice rounds for Smarter Balanced, built around harbor towns, library corners, and careful notebook work, with answer keys and clear explanations for every item.

Jay Daie and Reza Nazari



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Welcome, Connecticut Math Explorer!

Nine steady rounds on the Constitution State math route

This book gives you nine full Grade 4 practice tests for Smarter Balanced. Each round uses harbor towns, library corners, and careful notebook work to keep practice memorable while you read carefully, choose a strategy, show work, and check the answer.

Connecticut 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 Connecticut Smarter Balanced 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 Constitution 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?

Nine tests, 270 questions, and a full Smarter Balanced 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 7–9 | 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.

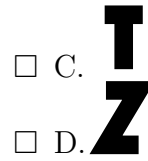
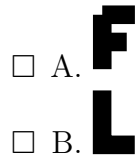


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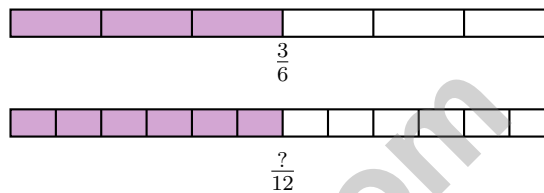
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1) Which block letter diagram has exactly one line of symmetry?



2) Look at the two fraction bars. Both are the same length.



What number replaces the question mark?

- A. 4
 B. 5

- C. 6
 D. 8

3) A pencil is 19 centimeters long. How many millimeters is this?

- A. 1.9
 B. 19

- C. 190
 D. 1,900

4) A library counted 43,678 books. Estimate to the nearest ten thousand.

- A. 40,000
 B. 43,000

- C. 44,000
 D. 50,000



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5) Which fraction is a multiple of $\frac{1}{5}$?

- A. $\frac{2}{5}$
 B. $\frac{1}{10}$

- C. $\frac{3}{4}$
 D. $\frac{2}{7}$

6)

| |
|----|
| ? |
| 45 |

A sports team scored 45 points. That is 5 times as many points as another team scored. How many points did the other team score?

- A. 5
 B. 40

- C. 25
 D. 9

7) Is 16 prime or composite?

- A. Prime
 B. Not a whole number

- C. Neither
 D. Composite

8) Each day, a plant needs $\frac{1}{2}$ cup of water. How much water does it need over 9 days?

- A. $\frac{1}{18}$ cup
 B. $\frac{9}{2}$ cups (or $4\frac{1}{2}$ cups)

- C. $\frac{9}{18}$ cup
 D. 9 cups

9) What is $6 \times \frac{1}{8}$?

- A. $\frac{1}{48}$
 B. $\frac{8}{6}$

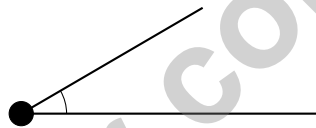
- C. $\frac{6}{8}$ or $\frac{3}{4}$
 D. $\frac{6}{1}$



10) Write $\frac{50}{100}$ as a decimal.

11) A baker needs $\frac{7}{12}$ cup of sugar and has $\frac{3}{12}$. How much more is needed?

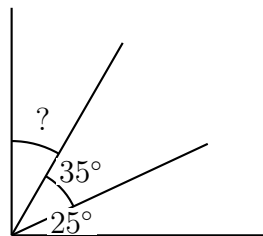
12)



Which statement is true about this angle?

- A. It is larger than a right angle C. It is equal to a right angle
 B. It is smaller than a right angle D. It is a straight angle

13) 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?

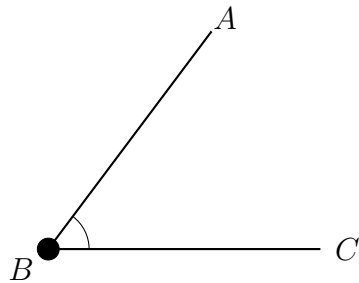


- A. 30° C. 90°
 B. 60° D. 10°



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1) The angle below is named $\angle ABC$. Where is point B ?

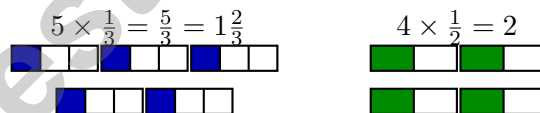


- A. At point A
- B. At the vertex
- C. At point C
- D. In the exterior

2) Noah measured an angle and found it has 75 one-degree angles. What is the measure of the angle?

- A. 75°
- B. 150°
- C. 7.5°
- D. 750°

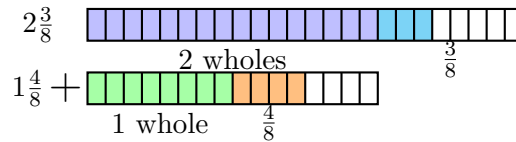
3) Compare: Which is larger, $5 \times \frac{1}{3}$ or $4 \times \frac{1}{2}$?



- A. $5 \times \frac{1}{3}$ is larger
- B. $4 \times \frac{1}{2}$ is larger
- C. They are equal
- D. Cannot be determined

4) Kai is at a lemonade stand. Pitcher A holds 0.75 liters. Pitcher B holds 0.57 liters. Which pitcher holds more lemonade?

- A. Pitcher A (0.75 L) C. Both hold the same amount
 B. Pitcher B (0.57 L) D. Pitcher B holds twice as much



5)

What is the sum shown by the bar diagrams above?

- A. $3\frac{7}{8}$ C. $4\frac{1}{8}$
 B. $3\frac{6}{8}$ D. $4\frac{7}{8}$

6) Write $2\frac{5}{6}$ as an improper fraction.

7) A clock hand moves from 12 o'clock to a position where it has rotated 45° . If it then rotates another 35° , what is the total angle of rotation?

- A. 10° C. 80°
 B. 70° D. 90°



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1) An ant model is 5 centimeters long. How many millimeters is this?

- A. 5 C. 500
 B. 50 D. 5,000

2) Round 5,196 to the nearest ten.

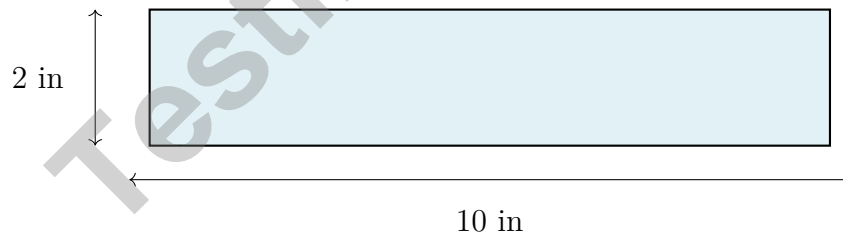
- A. 5,190 C. 5,196
 B. 5,100 D. 5,200

3) In a 4-digit number, if the hundreds digit is 5, what is its value?

- A. 5 C. 500
 B. 50 D. 5,000

4) What is $3\frac{3}{4} - 1\frac{2}{4} - \frac{3}{4}$?

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



5)

What is the perimeter of the rectangle shown?

- A. 12 in C. 20 in
 B. 24 in D. 30 in



6) How many endpoints does a line segment have?

7) What are the factors of 15?

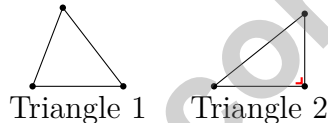
A. 1, 3, 5, 9, 15

C. 3, 5, 15

B. 1, 5, 15

D. 1, 3, 5, 15

8) Look at the two triangles. Which one is a right triangle?



A. Triangle 1

C. Both triangles

B. Triangle 2

D. Neither triangle

9) What is 3×807 ?

A. 2321

C. 2521

B. 2121

D. 2421

10) A party favor bag holds $\frac{1}{6}$ pound of candy. If you prepare 8 bags, how much candy is used in total?

A. $\frac{1}{48}$ pound

C. $\frac{8}{48}$ pound

B. $\frac{8}{6}$ pounds (or $1\frac{1}{3}$ pounds)

D. $\frac{6}{8}$ pound



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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 C is correct.** **(4.G.A.3)** The block letter T has one vertical line of symmetry down the center. The left and right halves match, but the top and bottom halves do not. The answer is choice C.
- Choice C is correct.** **(4.NF.A.1)** The denominator goes from 6 to 12 (multiply by 2). Multiply the numerator by 2 also: $\frac{3}{6} = \frac{3 \times 2}{6 \times 2} = \frac{6}{12}$.
- Choice C is correct.** **(4.MD.A.1)** Since 1 centimeter = 10 millimeters, multiply: $19 \times 10 = 190$ mm. The answer is 190 mm.
- Choice A is correct.** **(4.NBT.A.3)** We're rounding to the nearest ten thousand. Look at the thousands digit: 3. Since $3 < 5$, we round DOWN to 40,000 books. ✓
- Choice A is correct.** **(4.NF.B.4)** A multiple of $\frac{1}{5}$ means we count by fifths. We can write $\frac{2}{5} = 2 \times \frac{1}{5}$, so it's a multiple. The others don't fit that pattern.
- Choice D is correct.** **(4.OA.A.2)** We know the bigger amount is 45 points, and that's 5 times the other team. To find the smaller amount, divide: $45 \div 5 = 9$ points.
- Choice D is correct.** **(4.OA.B.4)** Hunt for factors beyond 1 and 16. Since $16 = 2 \times 8 = 4 \times 4$, both 2 and 4 are factors. With factors 1, 2, 4, 8, 16 (more than two), 16 is **composite**.
- Choice B is correct.** **(4.NF.B.4)** A plant needs $\frac{1}{2}$ cup of water each day. Over 9 days, it needs $9 \times \frac{1}{2} = \frac{9}{2}$ cups.
- Choice C is correct.** **(4.NF.B.4)** We take 6 copies of $\frac{1}{8}$. Multiply: $6 \times \frac{1}{8} = \frac{6 \times 1}{8} = \frac{6}{8} = \frac{3}{4}$. The answer is $\frac{3}{4}$.
- The correct answer is 0.5.** **(4.NF.C.5)** Fifty hundredths equals 0.5.
- The correct answer is $\frac{1}{3}$.** **(4.NF.B.3)** The baker needs $\frac{7}{12}$ cup and has $\frac{3}{12}$. What's needed: $7 - 3 = 4$ twelfths more, or $\frac{4}{12}$ (which simplifies to $\frac{1}{3}$).
- Choice B is correct.** **(4.MD.C.5)** This angle is acute because it has a small opening, smaller than a right angle (90 degrees).
- 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 D is correct.** **(4.NF.C.5)** The number line marks tenths: 0.2, 0.4, 0.6, 0.8. The decimal 0.8 lands on the fourth mark, which is at position Q.
- Choice B is correct.** **(4.MD.A.3)** The rectangle is 10 in long and 6 in wide. Perimeter = $2(10) + 2(6) = 20 + 12 = 32$ in.
- The correct answer is A, E.** **(4.MD.C.6)** Statements A and E are both correct definitions of angle types. B is incorrect because protractors measure angles, not length in centimeters. C is incorrect because a straight angle measures 180 degrees, not 90 degrees. D is incorrect because the vertex must be placed at the center point of the protractor, not at the curved edge.
- Choice A is correct.** **(4.NBT.B.5)** Use the distributive property: $6 \times (30 + 5) = 180 + 30 = 210$ students.
- Choice C is correct.** **(4.G.A.1)** An acute angle is small and pointy — less than 90° . Diagram C opens just a tiny bit (around 28°), so it's acute. The others are obtuse or right angles.
- The correct answer is 0.6.** **(4.NF.C.5)** Any decimal between 0.5 and 0.8 (not including the endpoints) works. For example, 0.6 has 6 tenths, which is more than 0.5's 5 tenths and less than 0.8's 8 tenths. So $0.5 < 0.6 < 0.8$. ✓ Other valid answers: 0.51, 0.55, 0.7, 0.79, etc.
- Choice A is correct.** **(4.NF.B.3)** Noah walked before and after lunch. Step 1: Add the distances: $\frac{5}{6} + \frac{4}{6} = \frac{9}{6} = 1\frac{3}{6} = 1\frac{1}{2}$ miles, which is more than one mile. Step 2: Find how much more: $1\frac{3}{6} - 1 = \frac{3}{6} = \frac{1}{2}$ mile more than one mile.
- Choice C is correct.** **(4.NF.B.3)** To reach $\frac{6}{10}$ with hops of $\frac{1}{10}$, we count: each hop is one unit fraction, and we need 6 copies to equal $\frac{6}{10}$. So 6 hops gets us there!
- Choice D is correct.** **(4.OA.B.4)** First find the rule by looking at the gaps: $6 - 2 = 4$, $10 - 6 = 4$, $14 - 10 = 4$, $18 - 14 = 4$. So the rule is "add 4." Apply it once more: $18 + 4 = 22$.
- Choice C is correct.** **(4.NBT.A.2)** Step 1: $100,000 + 20,000 + 3,000 = 123,000$. Step 2: $123,000 + 50 = 123,050$ ✓
- Choice B is correct.** **(4.MD.B.4)** Count how many times $\frac{1}{8}$ appears in our data: it shows up 3 times.



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

Jay Daie

Your Math Trainer

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