

10

Washington

Smarter Balanced

GRADE

6

MATH

PRACTICE TESTS

Standards-Aligned Review
Mixed Practice & Answer Key



10 PRINTED TESTS

Realistic practice to build confidence and mastery



2 ONLINE TESTS

Extra practice for continued success



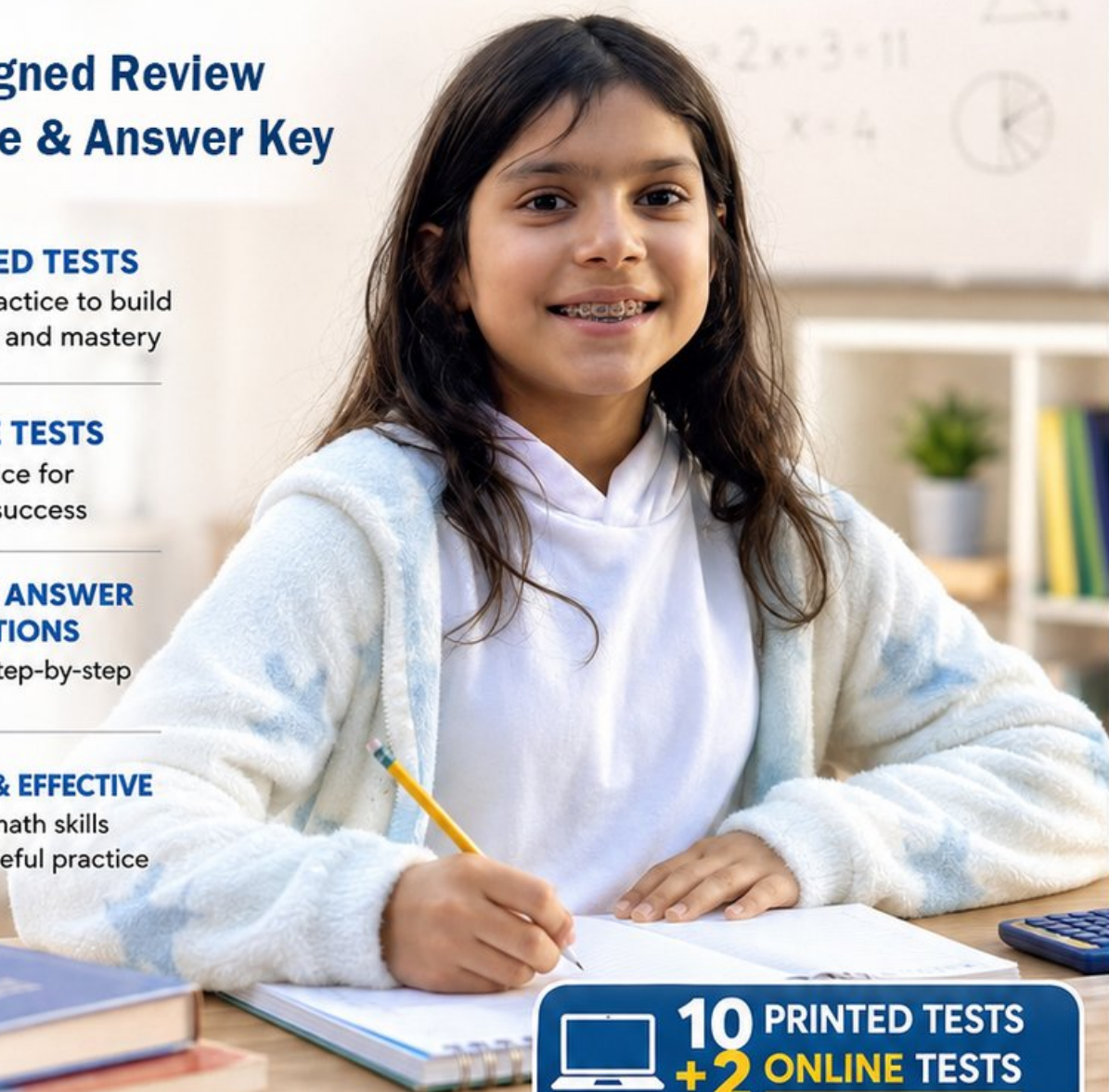
DETAILED ANSWER EXPLANATIONS

Learn with step-by-step solutions



FOCUSED & EFFECTIVE

Target key math skills with purposeful practice



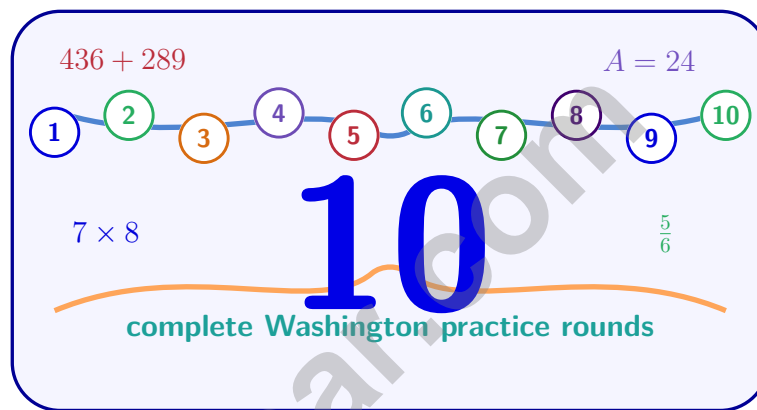
10 PRINTED TESTS
+ 2 ONLINE TESTS

Use these two additional online practice tests for extra review after the printed tests in this book.

PRACTICE • REVIEW • SUCCEED

10 Washington Smarter Balanced Grade 6 Math Practice Tests

Standards-Aligned Fresh, Focused Reasoning for Smarter Balanced Assessment Consortium



Ten complete 40-question Grade 6 practice rounds for Smarter Balanced, with ratios, rational numbers, expressions, equations, geometry, statistics, answer keys, and clear explanations for every item.

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Welcome, Washington Math Explorer!

Ten steady rounds on an Evergreen State math trail

This book gives you ten full Grade 6 practice tests for Smarter Balanced. Each round uses evergreen paths, rainy-day focus, and clear graph reading as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

Your Washington Practice Promise

When a display appears, read title, scale, and labels first. 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 fresh, focused reasoning

1. **Preview the skills.** Read the quick review pages before the first test.
2. **Take one test at a time.** Work in a quiet place and answer all 40 questions.
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.

Washington review rhythm: Test one day, correct carefully the next day, then return for the next round when your corrections feel clear.



What Is Inside?

Ten Smarter Balanced tests, 400 questions, and a full review path

Part	What You Will Practice
Tests 1–3	Warm-up rounds for ratios, rational numbers, operations, and careful reading.
Tests 4–6	Skill-building rounds with expressions, equations, geometry, data, and problem models.
Tests 7–9	Stamina rounds for mixed review, neat work, and flexible strategy choices.
Test 10	Final Washington round to show growth across the whole book.
Answer Pages	Compact keys and explanations that show why each answer works.

The tests are mixed on purpose. Fresh, focused reasoning means recognizing the skill even when the next question changes topic.

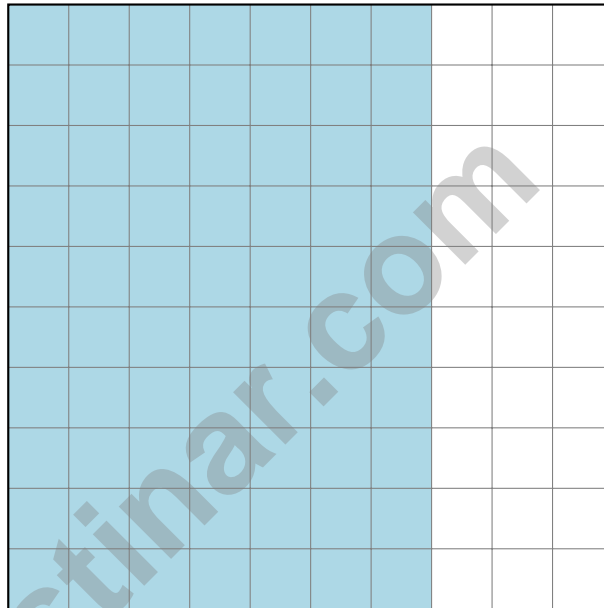


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For more practice
& answers

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- 5) If the area of a circle is approximately 314 square meters and $\pi \approx 3.14$, find the radius.



- 6) What percent of the grid is shaded blue?

- A. 30% C. 60%
 B. 50% D. 70%



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7) Expand $7(4 + 6)$.

A. $28 + 42$

C. $4 + 42$

B. $28 + 6$

D. 11×7

8) A circle graph shows transportation methods for 500 commuters. If 45% drive a car, how many commuters drive a car?

A. 200

C. 225

B. 180

D. 250

9) The data set is: 5, 8, 10, 12, 15, 18, 20, 22, 25, 28. Find the interquartile range (IQR).
Hint: $Q1 = 10$, $Q3 = 23$.

10) Five friends have the following number of books: 12, 15, 18, 10, 20. What is the mean number of books per friend?

11) A box plot for a dataset shows: minimum 15, $Q1$ 30, median 45, $Q3$ 60, maximum 85.

What does the length of the box represent?

 A. The interquartile range (IQR) C. The distance from minimum to median B. The entire range of data D. The standard deviation

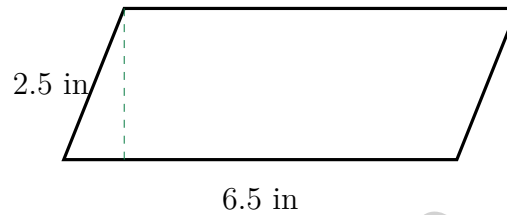
1) Which number is located farthest from -1 on a number line?

A. -3.2

C. 0.8

B. -2.1

D. 1.5



2)

A parallelogram has a base of 6.5 inches and a height of 2.5 inches. What is the area?

A. 9 in^2

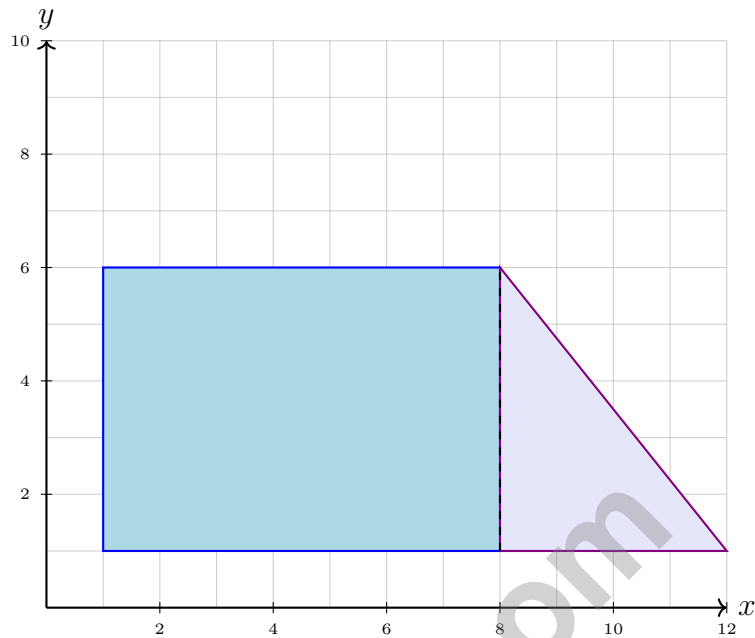
C. 18 in^2

B. 16.25 in^2

D. 9.5 in^2



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3)

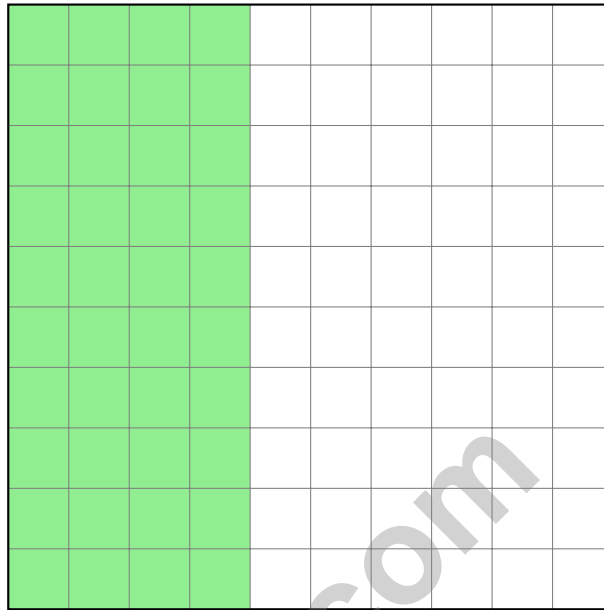
A composite figure consists of a rectangle and a triangle. The rectangle has vertices at $(1, 1)$, $(8, 1)$, $(8, 6)$, and $(1, 6)$. The triangle has vertices at $(8, 1)$, $(12, 1)$, and $(8, 6)$. What is the total area?

- A. 40 square units C. 50 square units
 B. 45 square units D. 55 square units

4) A circular tabletop has a radius of 2 feet. What is its approximate area using $\pi \approx 3.14$?

- A. 6.28 ft^2 C. 25.12 ft^2
 B. 50.24 ft^2 D. 12.56 ft^2





1)

How many unshaded squares are there?

- A. 40
- C. 60
- B. 50
- D. 70

2) A fruit vendor sells apples at a rate shown in the ratio table. If the vendor sells 18 pounds of apples, how much money does the vendor earn?

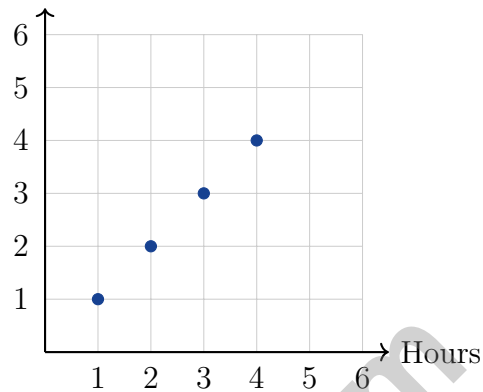
Apples (pounds)	Money (\$)
6	9
18	?



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- 3) The coordinate plane shows ordered pairs representing the ratio of hours worked to dollars earned. Based on the graph, how much is earned per hour?

Dollars (each tick = \$10)



- A. \$1 per hour
- B. \$5 per hour
- C. \$10 per hour
- D. \$20 per hour
- 4) A laptop costs \$1200 and is on sale for \$900. What is the percent discount?
- A. 20%
- B. 33%
- C. 30%
- D. 25%
- 5) If 3 notebooks cost \$9, how much will 7 notebooks cost?
- A. \$18
- B. \$20
- C. \$21
- D. \$27
- 6) A plumber has a pipe that is 2 yards 6 inches long. How many inches total is this? (Use 1 yard = 36 inches.)
- A. 36 inches
- B. 54 inches
- C. 72 inches
- D. 78 inches



Washington Smarter Balanced Practice Test Answer Keys

How to use this section with a Grade 6 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

- 1) **Choice A is correct.** **(6.SP.B.5)** Differential is points scored minus points allowed: $48 - 52 = -4$.
- 2) **Choice D is correct.** **(6.SP.B.5c)** This is not proportional because the cost per notebook is not constant. For example, 1 notebook costs \$0, but 2 notebooks cost \$5, so the ratio of cost to notebooks changes.
- 3) **Choice D is correct.** **(6.SP.B.4)** 3 years = 36 months. Total: $\$75 \times 36 = \2700 .
- 4) **Choice C is correct.** **(6.RP.A.1)** Multiply the drawing base by the scale: 4 inches \times 2 feet/inch = 8 feet.
- 5) **The correct answer is 10 meters.** **(6.NS.B.3)** From $A = \pi r^2$, we get $314 \approx 3.14 \times r^2$, so $r^2 \approx 100$, thus $r = 10$ meters.
- 6) **Choice D is correct.** **(6.NS.C.5)** Columns 0–6 (7 columns) \times 10 rows = 70 squares = 70%.
- 7) **Choice A is correct.** **(6.NS.C.6c)** Using the distributive property: $7(4 + 6) = 7 \cdot 4 + 7 \cdot 6 = 28 + 42 = 70$.
- 8) **Choice C is correct.** **(6.EE.A.3)** 45% of 500 is $0.45 \times 500 = 225$ commuters.
- 9) **The correct answer is 13.** **(6.EE.A.1)** IQR = $Q3 - Q1 = 23 - 10 = 13$.
- 10) **The correct answer is 15.** **(6.G.A.2)** Mean = $\frac{12 + 15 + 18 + 10 + 20}{5} = \frac{75}{5} = 15$.
- 11) **Choice A is correct.** **(6.G.A.3)** The box spans from Q1 to Q3, which is the IQR = $60 - 30 = 30$. This represents the middle 50% of the data.
- 12) **Choice D is correct.** **(6.NS.B.3)** The 6 chicken parts represent 18 chickens, so one part is $18 \div 6 = 3$. Ducks are 4 parts, and $4 \times 3 = 12$ ducks.
- 13) **Choice D is correct.** **(6.EE.A.2c)** Almonds are the 4-part amount, and $12 \div 4 = 3$, so each part is 3 oz. Raisins are $3 \times 3 = 9$ oz and chips are $5 \times 3 = 15$ oz; together that is 24 oz.
- 14) **Choice C is correct.** **(6.EE.B.5)** Divide cost by pounds: $3 \div 2 = 1.50$ dollars per pound.
- 15) **Choice C is correct.** **(6.EE.B.8)** Barn store costs $4.32 \div 24 = \$0.18$ per egg. The farmer's market costs $2.88 \div 18 = \$0.16$ per egg, so the farmer's market has the lower unit price.
- 16) **Choice B is correct.** **(6.EE.B.8)** The car travels 60 miles per hour. In 3 hours: $60 \times 3 = 180$ miles.
- 17) **Choice A is correct.** **(6.G.A.1)** From the table, the ratio is 1:4 (lemon juice:water). When $x = 1$ (lemon juice), $y = 4$ (water). The equation is $y = 4x$.
- 18) **Choice C is correct.** **(6.G.A.1)** 30% of 250 = $0.30 \times 250 = 75$ students.
- 19) **Choice C is correct.** **(6.NS.C.8)** Rate is $90 \div 2 = 45$ miles per hour. For 6 hours: $45 \times 6 = 270$ miles.
- 20) **Choice C is correct.** **(6.EE.C.9)** Multiply: $4 \times 2 = 8$ pints.
- 21) **Choice B is correct.** **(6.G.A.4)** Tax: 8% of \$64 = $0.08 \times 64 = \$5.12$. Total: $\$64 + \$5.12 = \$69.12$.
- 22) **The correct answer is Total surface area is 340 cm² and the formula $2(10)(8) + 2(10)(5) + 2(8)(5)$ is correct.** **(6.RP.A.1)** Total surface area is $2(10)(8) + 2(10)(5) + 2(8)(5) = 160 + 100 + 80 = 340$ cm², so B and C are correct. The lateral surface area is 180 cm², not 200 cm², and the two 10×5 faces have area 100 cm², not 120 cm².
- 23) **Choice C is correct.** **(6.G.A.1)** $4\frac{1}{2} = \frac{9}{2}$, so $\frac{9}{2} \div \frac{3}{8} = \frac{9}{2} \times \frac{8}{3} = \frac{72}{6} = 12$.
- 24) **Choice B is correct.** **(6.SP.A.2)** Check each one: $2,500 \div 25 = 100$, $3,000 \div 24 = 125$ ✓, $3,600 \div 30 = 120$, and $2,750 \div 25 = 110$. The match is choice B because $24 \times 125 = 3,000$.
- 25) **Choice A is correct.** **(6.SP.B.5c)** Subtract: $0.15 - 0.08 = 0.07$ meters. Align decimal points.
- 26) **Choice B is correct.** **(6.NS.A.1)** Distance traveled is always positive. The absolute value $|-7| = 7$ floors represents the magnitude of the distance.
- 27) **Choice A is correct.** **(6.RP.A.3)** Points on the y -axis have $x = 0$. For the negative y -axis, the y -coordinate must be negative, so $(0, -7)$ is correct.
- 28) **Choice A is correct.** **(6.SP.B.4)** $-B = -4$ and $-A = -1$. Since $-4 < -1 < 0$, the order is $-B < -A < 0$.
- 29) **Choice B is correct.** **(6.RP.A.1)** Same x -coordinate (3): $|0 - (-1)| = |0 + 1| = 1$ unit.
- 30) **Choice B is correct.** **(6.RP.A.3)** Start at -7 on a number line and move 3 units right: $-7 + 3 = -4$.



Hi, Math Champion!

◇ You trained hard! 10 full practice tests is real practice. Your math game is way better now than when you started. ◇

★ **Coach's truth:** kids who practice get better. You practiced. You got better. That's how it works!
★

Your Game Stats

- **Energy:** HIGH! You can finish a long test.
- **Smart Plays:** You know lots of strategies.
- **Calm Head:** You stay cool with hard problems.
- **Game-Day Ready:** You feel strong and prepared.

Coach's tip: the night before the test, get good sleep. Eat a good breakfast. Bring a sharp pencil. Trust your training!

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

Jay Daie

Your Math Coach

PRACTICE MORE. ACHIEVE MORE. SUCCEED!

This **Grade 6 Math Practice Tests** book is designed to help students build strong math skills, deepen their understanding of key concepts, and gain the confidence they need to succeed on any test.

With 10 full-length printed tests and 2 online tests, students get the review, practice, and realistic test experience they need to improve accuracy, strengthen problem-solving abilities, and reach their full potential.

Perfect for classroom use, homework, test preparation, and extra practice at home.

PERFECT FOR:

- ✓ Classroom Practice
- ✓ Homework & Review
- ✓ Independent Learning
- ✓ Test Preparation
- ✓ Skill Reinforcement
- ✓ Building Confidence

★ **CONFIDENCE TODAY.
SUCCESS TOMORROW!**

WHAT STUDENTS WILL GAIN



Stronger Math Skills

Build a solid foundation through targeted practice and review.



Better Problem Solving

Develop logical thinking and effective solution strategies.



Deepen Understanding

Reinforce key math concepts aligned with standards.



Test Confidence

Get familiar with test formats and improve accuracy.



Achieve Success

Build confidence and perform your best on test day.

TOPICS COVERED

- ✓ Ratios & Rates
- ✓ The Number System
- ✓ Expressions & Equations
- ✓ Geometry
- ✓ Fractions & Decimals
- ✓ Percents
- ✓ Statistics & Probability
- ✓ Data Analysis
- ✓ Measurement & Conversions
- ✓ And More!



2 ONLINE TESTS

Extra online practice to reinforce learning and build confidence.

MORE PRACTICE. GREATER RESULTS.

Give your child the tools needed to develop strong math skills, confidence, and a positive attitude toward learning.



10 PRINTED
PRACTICE TESTS



2 ONLINE
PRACTICE TESTS



DETAILED ANSWER
EXPLANATIONS