

# 10

# Louisiana LEAP

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



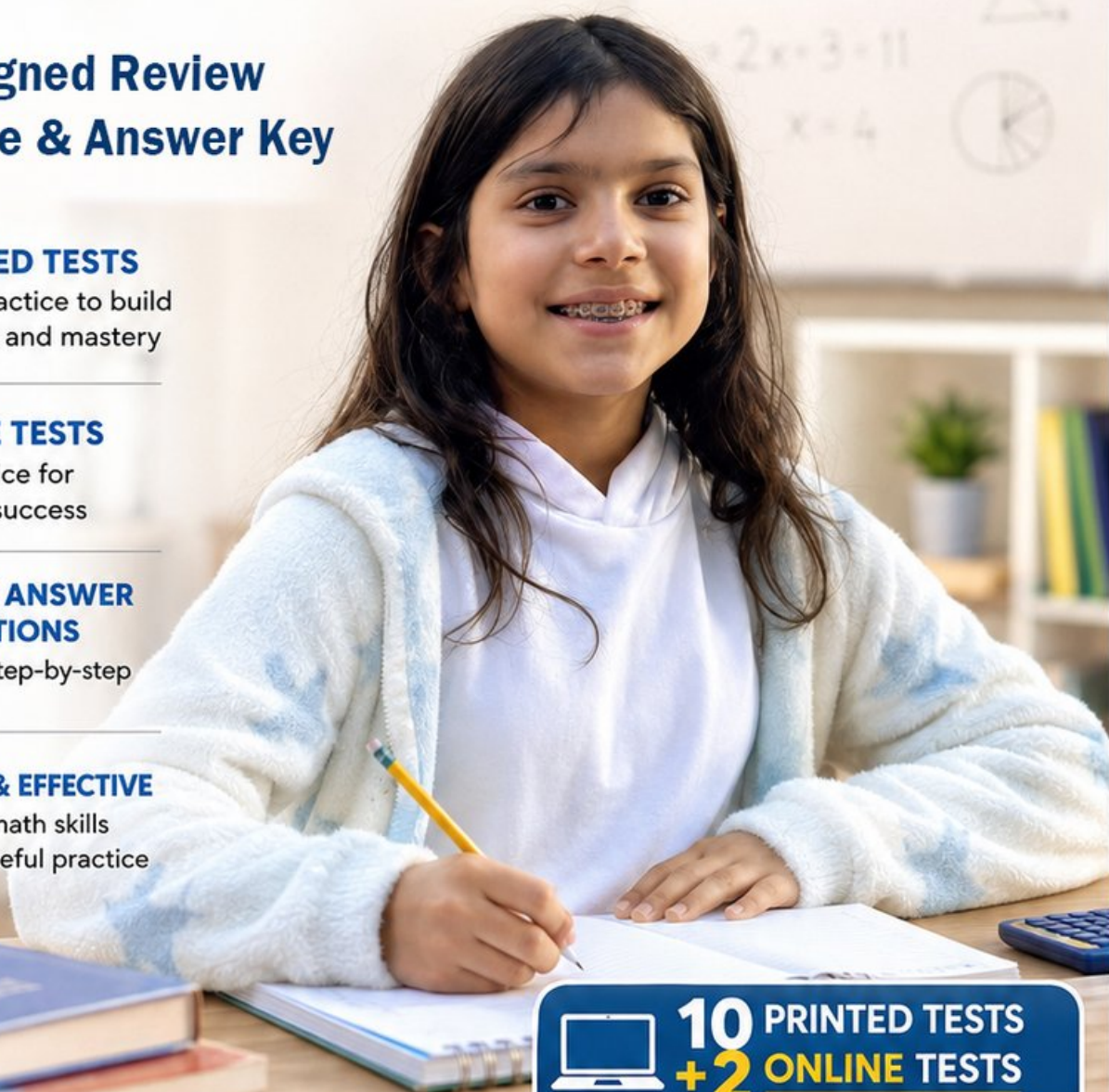
### DETAILED ANSWER EXPLANATIONS

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 Louisiana LEAP Grade 6 Math Practice Tests

*Standards-Aligned Resourceful Problem Solving for Louisiana Educational Assessment Program*



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

**Jay Daie and Reza Nazari**



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# Welcome, Louisiana Math Explorer!

Ten steady rounds on a bayou-to-classroom review route

This book gives you ten full Grade 6 practice tests for LEAP. Each round uses river bends, lively streets, and careful math rhythms as a fresh mental backdrop while you read closely, choose a smart strategy, show your work, and check whether your answer makes sense.

## Your Louisiana Practice Promise

Notice the pattern, then choose the tool that matches it. 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 resourceful problem solving

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.

**Louisiana 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 LEAP 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 Louisiana 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. Resourceful problem solving means recognizing the skill even when the next question changes topic.

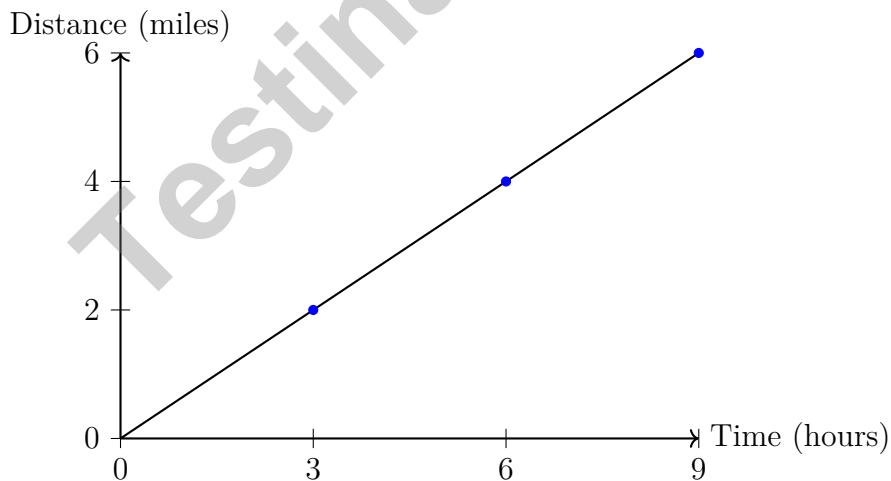


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& answers

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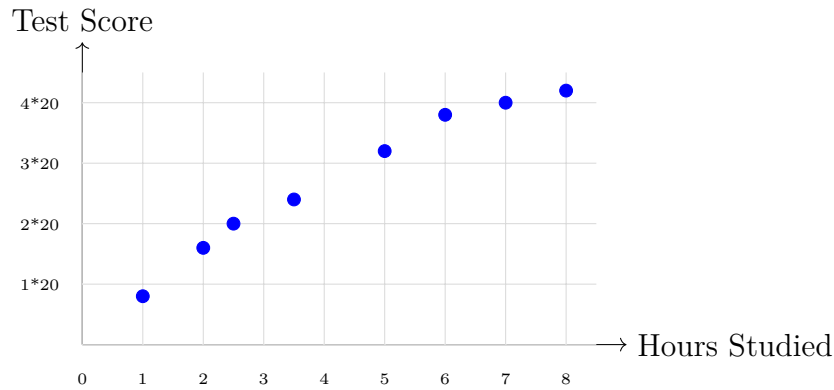
- 1) In the expression  $5x + 3 + 2x - 1$ , after combining like terms, what is the coefficient of  $x$ ?
- A. 5  C. 7  
 B. 2  D. 3
- 2) Marcus earns \$250 per week mowing lawns. He budgets 40% for expenses, 25% for savings, and the rest for spending. How much does he save each week?
- A. \$100 (40% spent)  C. \$62.50 (25% saved)  
 B. \$95 (35% remaining)  D. \$35 (14% miscalc.)
- 3) A trail is  $3\frac{1}{2}$  miles long. How many  $\frac{3}{4}$ -mile lengths fit along the trail?
- A.  $2\frac{5}{8}$   C.  $4\frac{2}{3}$   
 B. 4  D. 5



- 4) Based on the graph, what is the unit rate in miles per hour?

- A.  $\frac{1}{2}$  mile per hour  C. 1 mile per hour  
 B. 2 miles per hour  D.  $\frac{2}{3}$  miles per hour





8)

This scatter plot shows the relationship between hours studied and test scores. What trend does the plot suggest?

- A. More hours studied leads to lower scores
- B. There is no relationship between study hours and scores
- C. More hours studied generally leads to higher scores
- D. All students score the same regardless of study time

9)

Flavor	Strawberry	Vanilla	Chocolate
Servings	9	6	3

What is the simplified ratio of strawberry to vanilla servings?

- A. 9 : 6
- B. 6 : 9
- C. 2 : 3
- D. 3 : 2

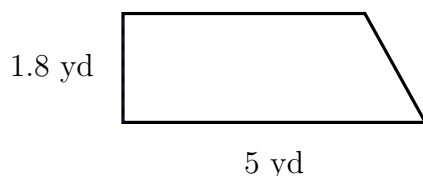
10) A recipe for trail mix uses almonds, raisins, and chocolate chips in a 4 : 3 : 5 ratio. If the mix contains 12 ounces of almonds, how many ounces of raisins and chocolate chips combined are in the mix?

- A. 12 oz
- B. 18 oz
- C. 20 oz
- D. 24 oz

- 1) A map uses a scale of 1 inch = 25 miles. Two cities are 5 inches apart on the map. How far apart are they in reality?
- A. 30 miles                       C. 100 miles  
 B. 75 miles                       D. 125 miles
- 2) Find the area of a triangle with vertices forming an obtuse angle, base 13 m, and perpendicular height 6 m.
- A. 19 m<sup>2</sup>                       C. 78 m<sup>2</sup>  
 B. 39 m<sup>2</sup>                       D. 156 m<sup>2</sup>
- 3) A circular tabletop has a radius of 2 feet. What is its approximate area using  $\pi \approx 3.14$ ?
- A. 6.28 ft<sup>2</sup>                       C. 25.12 ft<sup>2</sup>  
 B. 50.24 ft<sup>2</sup>                       D. 12.56 ft<sup>2</sup>
- 4) A score must be greater than 85 to earn an A. What is the least whole-number score?
- 
- 5) A student asks: “How many hours per week do students in my grade spend exercising?” Why is this a statistical question?
- A. Because exercise is healthy.                       C. Because different students exercise different amounts, requiring data from many people.  
 B. Because it involves numbers and hours.                       D. Because the question is asked in science class.



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6)

What is the area of the parallelogram shown above?

7) What is the median of the unordered set: 15, 3, 9, 12, 6?

A. 3

C. 9

B. 6

D. 12

8) A data set shows the following box plot summary statistics: min = 5, Q1 = 12, median = 18, Q3 = 24, max = 35. Find both the range and the IQR.

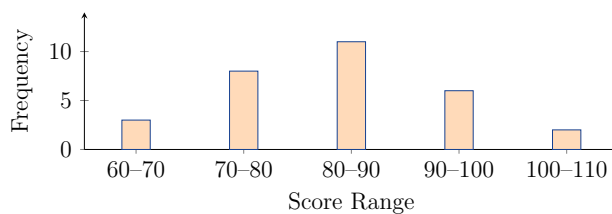
A. Range = 30, IQR = 12

C. Range = 29, IQR = 12

B. Range = 30, IQR = 11

D. Range = 30, IQR = 6

9) A histogram shows quiz scores in ranges of 10 points. The bars have heights (frequencies) of 3, 8, 11, 6, 2 for ranges 60–70, 70–80, 80–90, 90–100, 100–110 respectively. How many students scored 80 or above?

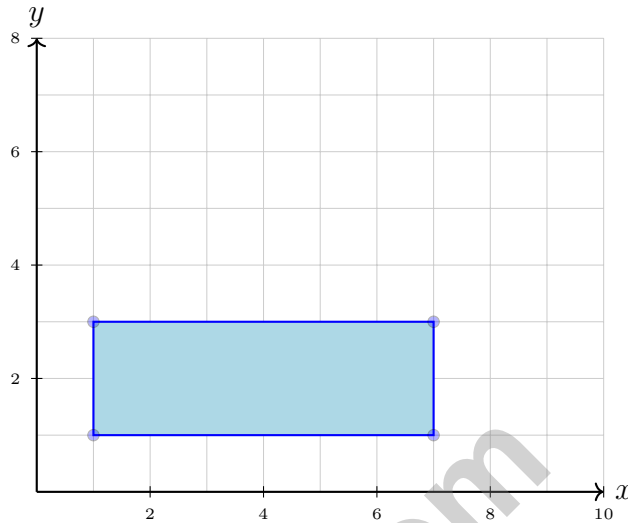


A. 11 students

C. 19 students

B. 17 students

D. 30 students



1)

What is the area of the rectangle shown?

- A. 10 square units
- C. 16 square units
- B. 12 square units
- D. 18 square units

2) A ratio table shows books read to days:

Days	Books
2	3
4	6
6	?

Complete the table by finding the missing value.



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3) If 60 out of 200 students walk to school, what percent walk?

- A. 6%                       C. 30%  
 B. 20%                     D. 60%

4) Solve:  $\frac{8}{12} = \frac{x}{30}$ .

- A. 18                       C. 22  
 B. 20                       D. 25

5) A bottle of medicine contains 30 milliliters. A patient takes 5 mL daily. After 4 days, how many liters remain in the bottle?

- A. 1 liter                       C. 2 liters  
 B. 0.02 liters                 D. 0.01 liters

6) A painter charges \$40 per hour. If the painter works for 3.5 hours, what is the total charge? Show that the relationship between hours and cost is proportional by checking that the equation  $c = 40h$  passes through the origin.

7) In a family budget, the ratio of expenses for Food to Rent is 2 : 5. If Food costs \$300 per month, how much is Rent?

- A. \$600                       C. \$1000  
 B. \$1200                     D. \$750



## Louisiana LEAP 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

- Choice C is correct.** **(6.RP.A.1)** Combining like terms:  $(5x + 2x) + (3 - 1) = 7x + 2$ . The coefficient of  $x$  in the simplified expression is 7.
- Choice C is correct.** **(6.SP.A.2)** Savings are 25% of \$250:  $0.25 \times 250 = \$62.50$ .
- Choice C is correct.** **(6.RP.A.1)** Change  $3\frac{1}{2}$  to  $\frac{7}{2}$ , then divide by multiplying by  $\frac{4}{3}$ :  $\frac{7}{2} \times \frac{4}{3} = \frac{28}{6}$ , which simplifies to  $\frac{14}{3}$  or  $4\frac{2}{3}$  lengths along the trail.
- Choice D is correct.** **(6.SP.B.5)** From the graph, at 3 hours the distance is 2 miles. The unit rate is  $2 \div 3 = \frac{2}{3}$  miles per hour.
- Choice B is correct.** **(6.EE.B.6)** Commission is 5% of \$2000 =  $0.05 \times 2000 = \$100$ .
- Choice A is correct.** **(6.NS.A.1)** Drawing 1:  $5 \times 2 = 10$  m and  $4 \times 2 = 8$  m. Drawing 2:  $10 \times 1 = 10$  m and  $8 \times 1 = 8$  m. Same field.
- Choice C is correct.** **(6.RP.A.3)** Number of soccer players =  $\frac{2}{3} \times 24 = 16$ .
- Choice C is correct.** **(6.NS.C.8)** The dots form an upward trend from left to right, indicating a positive correlation: as study hours increase, test scores tend to increase.
- Choice D is correct.** **(6.NS.B.3)** Follow the order in the question: strawberry first, then vanilla. That gives 9 : 6, and dividing both parts by 3 simplifies it to 3 : 2.
- Choice D is correct.** **(6.EE.B.8)** 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.
- The correct answer is 15.** **(6.EE.A.3)** Base:  $8 - 2 = 6$  units. Height:  $8 - 3 = 5$  units. Area =  $\frac{1}{2} \times 6 \times 5 = 15$  square units.
- Choice B is correct.** **(6.G.A.1)**  $360 \div 8 = 45$  widgets per hour.
- Choice B is correct.** **(6.SP.B.4)** Every 4 pancakes require 1 cup of milk, so 12 pancakes require  $12 \div 4 = 3$  cups.
- Choice C is correct.** **(6.EE.A.2c)** The unit rate is  $\frac{72}{6} = 12$  dollars per person. Verify:  $\frac{120}{10} = 12$  dollars per person ✓.
- Choice C is correct.** **(6.EE.A.3)**  $\frac{15}{50} = \frac{30}{100} = 30\%$  (multiply numerator and denominator by 2).
- The correct answer is 13.** **(6.EE.B.5)** IQR = Q3 - Q1 =  $23 - 10 = 13$ .
- Choice B is correct.** **(6.EE.B.8)** Distance = Rate  $\times$  Time =  $45 \times 3 = 135$  miles.
- The correct answer is Statements A, B, D, and E are correct; C is false.** **(6.EE.C.9)** A:  $2.5 \times 2 \times 4 = 20$  m<sup>3</sup> ✓. B:  $16 \times 3 = 48$  in<sup>3</sup> ✓. C:  $3 \times 4 \times 5 = 60$  ft<sup>3</sup> (not 70) ✗. D:  $6 \times 2 \times 3 = 36$  cm<sup>3</sup> ✓. E:  $10 \times 5 = 50$  m<sup>3</sup> ✓.
- Choice A is correct.** **(6.G.A.1)** Divide:  $36 \div 36 = 1$  yard.
- Choice D is correct.** **(6.EE.A.1)** Overspend:  $\$180 - \$150 = \$30$ . Percentage:  $\frac{\$30}{\$150} = 0.20 = 20\%$ .
- Choice A is correct.** **(6.G.A.2)** The ratio of distance to time is  $100/2 = 50$  and  $200/4 = 50$  mph, confirming constant speed. The proportional equation is  $d = 50t$ , not  $d = 100t$ .
- Choice A is correct.** **(6.SP.B.5c)**  $7,328 \div 32 = 229$ . Check by multiplying back:  $32 \times 229 = 7,328$ , so the division is exact.
- Choice A is correct.** **(6.SP.B.5c)**  $3 \times 3 = 9$ . We have  $1 + 1 = 2$  decimal places total, so 0.09 is correct.
- Choice B is correct.** **(6.NS.B.3)**  $36 = 4 \times 9 = (2 \times 2) \times (3 \times 3) = 2^2 \times 3^2$ . Options A, C, and D contain composite numbers.
- Choice A is correct.** **(6.RP.A.3)** The rectangle has height 3 and is divided horizontally into two widths: 2 and 5. The total area is  $3 \times 2 + 3 \times 5 = 3(2 + 5)$ .
- Choice D is correct.** **(6.EE.A.2b)** The integers  $-7$  and  $7$  satisfy all three conditions: they are each 7 units from zero, they are opposites, and they are on opposite sides of zero.
- Choice B is correct.** **(6.G.A.3)** Distance is a positive quantity. A number  $x$  units left of zero (at position  $-x$ ) has distance  $|-x| = x$  from zero.



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& answers

## 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](mailto: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