

# TSIA2 MATH TEST

## Quantitative Reasoning

Understand. Practice. Balance the Equation. *Achieve Your Goals!*

This section measures your ability to solve problems using numbers, relationships, and expressions in real-life situations.

*Strong skills  
build a strong  
foundation!* 

*Like balanced  
stones,  
equations are  
about keeping  
everything in  
balance.* 

*Solve.  
Simplify.  
Succeed!*

### FOCUS AREAS IN QUANTITATIVE REASONING



#### 1. NUMBERS AND OPERATIONS

Work with whole numbers, integers, fractions, decimals, percents, and more.

- ✓ Order of operations
- ✓ Real numbers & absolute value
- ✓ Addition, subtraction, multiplication, and division
- ✓ Fractions, decimals & percents
- ✓ Exponents and square roots



**Strong number sense**  
opens the door to success!



#### 2. RATIOS, PROPORTIONS & RATES

Solve problems involving relationships and comparisons.

- ✓ Ratios and rates
- ✓ Proportions and percent problems
- ✓ Unit rates
- ✓ Scale drawings and conversions
- ✓ Real-world applications



**Find the right rate.**  
Make the right impact!



#### 3. LINEAR EXPRESSIONS AND EQUATIONS

Use algebraic thinking to model and solve problems.

- ✓ Write and evaluate expressions
- ✓ Simplify algebraic expressions
- ✓ Solve linear equations
- ✓ Solve formulas for a variable
- ✓ Word problems and applications



**Keep it balanced.**  
Solve with confidence!



#### PUT IT ALL TOGETHER!

Apply your skills to multi-step problems and real-world situations.

- ✓ Analyze and reason
- ✓ Make connections
- ✓ Choose the best strategy
- ✓ Check your work
- ✓ Answer with confidence



**You have the skills.**  
You've got this!

### TESTING TIPS



**Read carefully.**  
Understand what  
the question is  
asking.



**Plan your steps.**  
Choose a strategy  
and show your  
work.



**Check your answer.**  
Does it make sense?  
Go back and verify  
your work.

*Every problem you solve  
brings you closer to  
your goals!* 



**Your Math Skills. Your Future.**  
Practice today. Succeed tomorrow.  
*We believe in you!* 

Build **Confidence**. Strengthen **Skills**. Achieve **Success** on the TSIA2 Math Test! 