

# Workout 1B: Algebra Basics

Course Name	Covered Topics	Learning Time
<b>Get Ready</b>	Who Should Take This Course, Help Us Know More About You, How to Use This Course, Table of Content	
Day 1 Workout	<b>Q1.</b> Game theory, puzzles <b>Q2.</b> Systems of equations <b>Q3.</b> Arithmetic Tricks, multiplying by numbers with 9's	12 videos, 48min
Day 2 Workout	<b>Q1.</b> Fractions, decimals, percents <b>Q2.</b> Systems of equations, diagrams <b>Q3.</b> Change of units, multiplying by teens trick <b>Q4.</b> How to Win at Tic-Tac-Toe <b>Bonus:</b> The Make 15 Game (Parts 1, 2, and 3)	13 videos, 49 min
Day 3 Workout	<b>Q1.</b> Multiplication tricks, absolute value <b>Q2.</b> Squares Ending in 5 <b>Q3.</b> Relative rates, track problems, approximations for pi <b>Q4.</b> Number systems, base 60, difference of squares	11 videos, 40 min
Day 4 Workout	<b>Q1.</b> Make 100: Order of operations <b>Q2.</b> Puzzles, logic <b>Q3.</b> Factorials, order of operations, approximation, powers of 2 <b>Q4.</b> Exponential growth, reproduction factor, mathematical models	13 videos, 48 min
<b>Week 1 Challenge</b>	Try your new skills!	10 questions, 60 min
Day 5 Workout	<b>Q1.</b> Multiplication tricks <b>Q2.</b> Conversions, approximations <b>Q3.</b> Variables, equations, word problems <b>Bonus:</b> Frame Rate	12 videos, 39 min
Day 6 Workout	<b>Q1.</b> Easy Arithmetic Series <b>Q2.</b> Sequences, common difference of a sequence <b>Q3.</b> Exponential growth, reproduction factor	12 videos, 47 min
Day 7 Workout	<b>Q1.</b> Inequalities <b>Q2.</b> Repeating decimals, geometric series, fractions with 9's in the denominator <b>Q3.</b> Approximations for $\pi$ , repeating decimal of $\square$ , logarithms <b>Q4.</b> Mean, Median, Mode, and Range	11 videos, 41 min
Day 8 Workout	<b>Q1.</b> Add a Line, order of operations <b>Q2.</b> Fractional Roots <b>Q3.</b> Relative rates, speed, frame of reference <b>Bonus:</b> Non-Math Bonus: Toilets	13 videos, 44 min
<b>Week 2 Challenge</b>	Try your new skills!	10 questions, 60 min