

# Workout 1A: 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> Arithmetic Series, Averages, Mental Math <b>Q2.</b> Diagrams, Puzzle <b>Q3.</b> Fermi Estimate, Energy <b>Q4.</b> Difference of Squares <b>Q5.</b> 2-Variable Equations <b>Bonus:</b> Systems of Equations	13 videos, 45 min
Day 2 Workout	<b>Q1.</b> Difference of Squares, Mental Math <b>Q2.</b> Arithmetic Mean <b>Q3.</b> Work Problems, Rates <b>Q4.</b> Coupon Collector Problem <b>Q5.</b> Word Problems, Equations <b>Bonus:</b> 1729	10 videos, 32 min
Day 3 Workout	<b>Q1.</b> Radians, Slope, Circumference, Slope <b>Q2.</b> Mental Math, Averages, Arithmetic Series <b>Q3.</b> Ratios, Scaling, Proportion <b>Bonus:</b> Probability	12 videos, 49 min
Day 4 Workout	<b>Q1.</b> Multiplication Tricks, Patterns in Squares <b>Q2.</b> Word Problem, 2-Variable Equations <b>Q3.</b> Sum of Powers of 2, Speed, Estimation <b>Q4.</b> Approximation	11 videos, 37 min
<b>Week 1 Challenge</b>	Try your new skills!	10 questions, 60 min
Day 5 Workout	<b>Q1.</b> $37 \times 3$ , 1001, Mental Math <b>Q2.</b> Mental Math, Bases <b>Q3.</b> Average Speed, Harmonic Mean, Rates, Reciprocals	12 videos, 49 min
Day 6 Workout	<b>Q1.</b> Average, Arithmetic Series <b>Q2.</b> Comparing Fractions <b>Q3.</b> Estimation, Scientific Notation <b>Q4.</b> Mental Math, Order of Operations <b>Q5.</b> Variables, Word Problems	13 videos, 47 min
Day 7 Workout	<b>Q1.</b> Continued Fraction <b>Q2.</b> Mental Math <b>Q3.</b> Arithmetic Sequence, Average, Arithmetic Series, Divisibility by 3 <b>Q4.</b> 2-Variable Equations, Word Problems <b>Q5.</b> Mental Math, Patterns	12 videos, 42 min
Day 8 Workout	<b>Q1.</b> Arithmetic, Mental Math <b>Q2.</b> 3-Variable System of Equations <b>Q3.</b> Factoring, Distributive Property <b>Q4.</b> Floor Function, Exponents <b>Bonus:</b> A Deep Hole	12 videos, 42 min
<b>Week 2 Challenge</b>	Try your new skills!	10 questions, 60 min