Rising Algebra 1– Summer Work
Select Grade 7

A.2 Prime factorization

A.4 Divisibility rules

A.5 Greatest common factor

A.6 Least common multiple

B.6 Integer inequalities with absolute values

C.9 Add and subtract integers

C.17 Multiply and divide integers

C.18 Complete multiplication and division equations with integers

C.20 Evaluate numerical expressions involving integers

E.5 Divide decimals

E.11 Evaluate numerical expressions involving decimals

G.18 Evaluate numerical expressions involving fractions

H.3 Convert between decimals and fractions or mixed numbers

H.6 Compare rational numbers

H.10 Add and subtract rational numbers

H.15 Multiply and divide rational numbers

I.4 Exponents with negative bases

I.5 Exponents with decimal and fractional bases

I.9 Evaluate numerical expressions involving exponents

I.10 Square roots of perfect squares

J.11 Solve proportions

J.12 Solve proportions: word problems

L.2 Convert between percents, fractions, and decimals

L.7 Solve percent equations

M.6 Percent of a number: tax, discount, and more

O.3 Compare and convert customary units

O.5 Compare and convert metric units

P.2 Quadrants and axes

R.5 Evaluate multi-variable expressions

R.6 Evaluate absolute value expressions

R.7 Evaluate nonlinear expressions

S.2 Write an equation from words

U.1 Does (x, y) satisfy the equation?

U.3 Find a value using two-variable equations

U.7 Identify the graph of an equation

U.8 Graph a two-variable equation

Y.1 Pythagorean theorem: find the length of the hypotenuse

Y.2 Pythagorean theorem: find the missing leg length

AA.1 Perimeter

AA.2 Area of rectangles and parallelograms

AA.5 Circles: calculate area, circumference, radius, and diameter