

## **INCOMING SEVENTH GRADERS**

*Summer 2017 IXL Math Requirements: 5 hours from the following topics:*

IXL Grade Level: 6

C.1 Divisibility rules

F.2 Decimal place values

F.3 Word names for decimal numbers

F.4 Convert decimals to mixed numbers

F.5 Put decimal numbers in order

F.6 Inequalities with decimals

F.7 Round decimals

F.8 Round whole numbers and decimals: find the missing digit

F.9 Decimal number lines

G.1 Add and subtract decimal numbers

G.2 Add and subtract decimals: word problems

G.3 Estimate sums and differences of decimals

H.1 Estimate products of decimal numbers

H.2 Multiply decimals

H.3 Inequalities with decimal multiplication

H.4 Divide decimals by whole numbers

H.5 Divide decimals by whole numbers: word problems

H.6 Multiply and divide decimals by powers of ten

H.7 Division with decimal quotients

I.1 Fractions and mixed numbers review

I.2 Understanding fractions: word problems

I.3 Equivalent fractions review

I.4 Write fractions in lowest terms

I.5 Fractions: word problems

I.6 Least common denominator

I.7 Compare fractions with like and unlike denominators

I.8 Compare fractions: word problems

I.9 Convert between improper fractions and mixed numbers

I.10 Convert between decimals and fractions or mixed numbers

I.11 Put a mix of decimals, fractions, and mixed numbers in order

J.1 Add and subtract fractions with like denominators

J.2 Add and subtract fractions with like denominators: word problems

J.3 Add and subtract fractions with unlike denominators

J.4 Add and subtract fractions with unlike denominators: word problems

J.5 Inequalities with addition and subtraction of like and unlike fractions

J.6 Add and subtract mixed numbers

J.7 Add and subtract mixed numbers: word problems

K.1 Fractions of whole numbers I

K.2 Fractions of whole numbers II

K.3 Fractions of a number: word problems

K.4 Estimate products of fractions and whole numbers

K.5 Multiply two fractions using models

K.6 Multiply two fractions

K.7 Multiply fractions: word problems

L.1 Divide whole numbers by unit fractions using models

L.2 Reciprocals

L.3 Divide whole numbers and unit fractions

L.4 Divide fractions by whole numbers in recipes

L.5Divide fractions

L.6Estimate quotients when dividing mixed numbers

L.7Divide fractions and mixed numbers

L.8Divide fractions and mixed numbers: word problems

FF.1Perimeter

FF.2Area of rectangles and squares

FF.3Area of triangles

FF.11Circles: calculate area, circumference, radius, and diameter

FF.12Circles: word problems

## **INCOMING EIGHTH GRADERS**

*Summer 2017 IXL Math Requirements: 5 hours from the following topics:*

IXL Grade Level: 7

A.4 Divisibility rules

B.1 Understanding integers

B.2 Integers on number lines

B.3 Graph integers on horizontal and vertical number lines

B.4 Absolute value and opposite integers

B.5 Compare and order integers

B.6 Integer inequalities with absolute values

E.1 Add and subtract decimals

E.2 Add and subtract decimals: word problems

E.3 Multiply decimals

E.4 Multiply decimals and whole numbers: word problems

E.5 Divide decimals

E.6 Divide decimals by whole numbers: word problems

G.1 Add and subtract fractions

G.2 Add and subtract fractions: word problems

G.3 Add and subtract mixed numbers

G.4 Add and subtract mixed numbers: word problems

I.1 Understanding exponents

I.2 Evaluate exponents

I.3 Solve equations with variable exponents

I.9 Square roots of perfect squares

J.1 Understanding ratios

J.2 Identify equivalent ratios

J.3 Write an equivalent ratio

J.4 Equivalent ratios: word problems

J.5 Unit rates

R.1 Write variable expressions

R.2 Write variable expressions: word problems

S.1 Which  $x$  satisfies an equation?

S.2 Write an equation from words

S.5 Solve one-step equations

S.6 Solve two-step equations

S.7 Solve equations: word problems

S.8 Solve equations involving like terms

S.9 Solve equations: complete the solution

AA.1 Perimeter

AA.2 Area of rectangles and parallelograms

AA.3 Area of triangles and trapezoids

AA.4 Area and perimeter: word problems

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

AA.6 Circles: word problems

### **INCOMING EIGHTH GRADERS ALGEBRA TRACK**

*Summer 2017 IXL Math Requirements: 5 hours from the 8<sup>th</sup> Math Track (above), **plus** 5 hours working on any deficiencies indicated on the 7<sup>th</sup> Grade Math Diagnostics Test taken in May.*