

# 4th ->5th Advanced Math Summer Assignments

All of the objectives are from the 5th Grade IXL.COM

The following list of objectives is required.

Please complete the objectives to a score of 80 smart score. But parents, I'm not trying to ruin their summer! If they have spent more time on an objective than you think is reasonable, please make them stop!

Please don't hesitate to contact me if you have any problems or concerns.  
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## Place values and number sense

A.1 Convert between standard and expanded form

A.2 Place value

A.3 Compare numbers up to billions

A.4 Choose word names for numbers

A.5 Write word names for numbers

A.6 Roman numerals

A.9 Understanding integers

A.10 Compare integers

A.11 Put integers in order

## Addition and subtraction

B.1 Add and subtract whole numbers up to billions

B.8 Properties of addition

## Multiplication

C.1 Multiply by 1-digit numbers

C.4 Multiply numbers ending in zeroes

C.6 Properties of multiplication

C.12 Multiply by 2-digit numbers: complete the missing steps

C.13 Multiply 2-digit numbers by 2-digit numbers

C.14 Multiply 2-digit numbers by 3-digit numbers

## Division

D.1 Division facts to 12

D.3 Divide multi-digit numbers by 1-digit numbers

D.5 Divide by 1-digit numbers: interpret remainders

D.7 Divide numbers ending in zeroes

D.11 Divide 2-digit and 3-digit numbers by 2-digit numbers

### **Exponents**

E.1 Understanding exponents

### **Decimals**

G.1 What decimal number is illustrated?

G.3 Understanding decimals expressed in words

G.4 Place values in decimal numbers

G.5 Convert decimals between standard and expanded form

### **Add and subtract decimals**

H.1 Add decimal numbers

H.2 Subtract decimal numbers

H.3 Add and subtract decimal numbers

### **Multiply decimals**

I.1 Estimate products of decimals

I.2 Multiply a decimal by a power of ten

I.3 Multiply a decimal by a one-digit whole number

### **Fractions and mixed numbers**

K.1 Fractions review

K.4 Equivalent fractions

K.5 Write fractions in lowest terms

### **Add and subtract fractions**

L.3 Add and subtract fractions with like denominators

### **Mixed operations**

O.1 Add, subtract, multiply, and divide whole numbers

O.5 Add, subtract, multiply, and divide decimals

O.7 Add, subtract, multiply, and divide fractions and mixed numbers

### **Percents**

R.1 What percentage is illustrated?

R.2 Convert between percents, fractions, and decimals

### **Coordinate plane**

U.1 Objects on a coordinate plane

U.2 Graph points on a coordinate plane

### **Data and graphs**

W.2 Interpret line graphs

W.4 Interpret bar graphs

W.6 Interpret pictographs

### **Probability and statistics**

X.1 Calculate mean, median, mode, and range

X.4 Understanding probability

X.5 Find the probability

### **Three-dimensional figures**

DD.1 Identify three-dimensional figures

DD.2 Count vertices, edges, and faces

DD.3 Nets of three-dimensional figures

### **Geometric measurement**

EE.1 Perimeter with whole number side lengths

EE.4 Area of squares and rectangles