

MIDDLE SCHOOL SUMMER MATH

Incoming 8th grade:

Group 1: Please log on to IXL and complete the following skills with at least a score of 80%.

Rational numbers:

D.8: Put rational numbers in order

Operations with rational numbers:

E.9: Evaluate numerical expressions involving rational numbers

Percents:

J.9: Solve percent equations

Units of measurement:

L.3: Mixed customary units

Problem solving:

M.1: Multi-step word problems

Coordinate plane:

N.4: Find the distance between two points

Two-dimensional figures:

O.9: Interior angles of polygons

Transformations and symmetry:

Q.2: Dilations: graph the image

Pythagorean theorem:

R.4: Pythagorean theorem: word problems

Expressions and properties:

V.13: Write equivalent expressions using properties

V.15: Add, subtract and multiply linear expressions

One-variable equations:

W.8: Solve multi-step equations

W.11: Solve equations: mixed review

One-variable inequalities:

X.9: Graph solutions to multi-step inequalities

Group 2: Please log on to IXL on Level J and complete the following skills with at least a score of 80%:

Number Theory:

A.8: Classify numbers

Operations with integers:

C.3: Add and subtract integers

C.7: Multiply and divide integers

Rational numbers:

D.4: Convert between decimals and fractions or mixed numbers

D.7: Compare rational numbers

Operations with rational numbers:

E.5: Multiply and divide rational numbers

Percents:

J.8: Compare percents of numbers

Consumer math:

K.5: Percent of a number: tax, discount, and more

Units of measurement:

L.3: Mixed customary units

Problem solving:

M.1: Multi-step word problems

Coordinate plane:

N.2: Quadrants and axes

Pythagorean Theorem:

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

Expressions and properties:

V.11: Properties of addition and multiplication

One-variable equations:

W.2: Write an equation from words

Statistics:

DD.1: Calculate mean, median, mode and range

Incoming 7th grade:

Group 1: Please log on to IXL on Level J and complete the following skills with at least a score of 80%:

Rational numbers:

D.8: Put rational numbers in order

Operations with rational numbers:

E.9: Evaluate numerical expressions involving rational numbers

Percents:

J.9: Solve percent equations

Units of measurement:

L.3: Mixed customary units

Problem solving:

M.1: Multi-step word problems

Coordinate plane:

N.4: Find the distance between two points

Two-dimensional figures:

O.9: Interior angles of polygons

Transformations and symmetry:

Q.2: Dilations: graph the image

Pythagorean theorem:

R.4: Pythagorean theorem: word problems

Expressions and properties:

V.13: Write equivalent expressions using properties

V.15: Add, subtract and multiply linear expressions

One-variable equations:

W.8: Solve multi-step equations

W.11: Solve equations: mixed review

One-variable inequalities:

X.9: Graph solutions to multi-step inequalities

Group 2: Please log on to IXL on Level I and complete the following skills with at least a score of 80%:

Number Theory:

A.4: Divisibility rules

A.8: Scientific notation

Integers:

B.5: Compare and order integers

Decimals:

D.2: Compare and order decimals

Operations with decimals:

E.8: Add, subtract, multiply, and divide decimal: word problems

Fractions and mixed numbers:

F.3: Write fractions in lowest terms

F.4: Fractions: word problems with graphs and tables

F.8: Convert between mixed numbers and improper fractions

Operations with fractions:

G.4: Add and subtract mixed numbers: word problems

G.11: Multiply fractions and mixed numbers: word problems

Rational Numbers:

H.1: Convert between decimals and fractions or mixed numbers

H.5: Put rational numbers in order

Percents:

L.3: Compare percents to fractions and decimals

L.4: Estimate percents of numbers

Incoming 6th grade:

Please log on to IXL on Level H and complete the starred skills with at least a score of 80%.