



IXL Skill Plan for the NWEA[®] MAP[™] Growth

Math grades 6+



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Operations and Algebraic Thinking

RIT Score: Less than 215

Standard	IXL skills
Expressions and Equations	<p>Multiply and divide fractions</p> <ol style="list-style-type: none"> 1. Multiply two fractions using models: fill in the missing factor AT7 2. Divide unit fractions and whole numbers: word problems G2N <p>Area</p> <ol style="list-style-type: none"> 3. Multiply fractions to find area SEZ <p>Numerical expressions</p> <ol style="list-style-type: none"> 4. Write numerical expressions: one operation SCJ 5. Write numerical expressions: two operations 8ME

RIT Score: 215–217

Standard	IXL skills
Expressions and Equations	<p>Fractions</p> <ol style="list-style-type: none"> 1. Understand fractions as division: word problems CTD <p>Exponents and powers of ten</p> <ol style="list-style-type: none"> 2. Write powers of ten with exponents KGQ 3. Understanding powers of ten 8HS <p>Multiply and divide by powers of ten</p> <ol style="list-style-type: none"> 4. Multiply by a power of ten with decimals: find the missing number GC5 5. Decimal division patterns over increasing place values GBS 6. Divide by a power of ten with decimals: find the missing number R2P <p>Order of operations</p> <ol style="list-style-type: none"> 7. Evaluate numerical expressions Z5N

- Evaluate numerical expressions with parentheses HGW
- Identify mistakes involving the order of operations JLJ

RIT Score: 218–219**Standard****IXL skills**

Expressions and Equations

Exponents

- Write multiplication expressions using exponents TY5
- Evaluate exponents XDA
- Find the missing exponent or base HC5
- Exponents with decimal bases D5D
- Exponents with fractional bases GEQ

Order of operations

- Evaluate numerical expressions involving whole numbers MLU
- Evaluate numerical expressions involving decimals YEE
- Evaluate numerical expressions involving fractions WNE
- Identify mistakes involving the order of operations V46

Write variable expressions

- Write variable expressions: one operation F5B
- Write variable expressions: word problems 6LQ

Evaluate variable expressions

- Evaluate variable expressions with whole numbers Q8Z
- Evaluate variable expressions with decimals, fractions, and mixed numbers 49T
- Evaluate variable expressions: word problems 7XA

Factors, terms, and coefficients

- Identify terms and coefficients 9KE
- Sort factors of variable expressions QXS
- Sort factors of numerical expressions TXX

Properties of operations

18. Multiply using the distributive property 2HH
19. Factor variable expressions using the distributive property PGZ
20. Write equivalent expressions using properties R8H
21. Multiply using the distributive property: area models 7XM

Equivalent expressions

22. Identify equivalent expressions I KFG
23. Identify equivalent expressions II HTG
24. Identify equivalent expressions using strip models W5U

RIT Score: 220–221

Standard

Expressions and Equations

IXL skills

Solutions to equations

1. Does x satisfy an equation? VMB
2. Which x satisfies an equation? VG8

One-step equations

3. Model and solve equations using algebra tiles G6Z
4. Write and solve equations that represent diagrams FSQ
5. Solve one-step equations with whole numbers WLR
6. Solve one-step multiplication and division equations with decimals and fractions T53
7. Solve one-step addition and subtraction equations with whole numbers JXM
8. Solve one-step multiplication and division equations with whole numbers JUA
9. Solve one-step addition and subtraction equations with decimals and fractions 5D2

Equations word problems

10. Solve one-step equations: word problems BXY

11. Solve one-step addition and subtraction equations: word problems 35Q
12. Solve one-step multiplication and division equations: word problems GMV
13. Write a one-step equation: word problems YVX

Inequalities

14. Solutions to inequalities P9N
15. Graph inequalities on number lines CXX
16. Write inequalities from number lines N99
17. One-step inequalities: word problems N2A
18. Write and graph inequalities: word problems AGB

Two-variable equations

19. Identify independent and dependent variables in tables and graphs YFW
20. Complete a table and graph a two-variable equation EY5
21. Identify the graph of an equation WN7
22. Solve word problems by finding two-variable equations UJQ
23. Write a two-variable equation from a table ZTL

RIT Score: 222–224

Standard

Expressions and Equations

IXL skills

Evaluate expressions

1. Evaluate linear expressions UG6
2. Evaluate multi-variable expressions T56
3. Evaluate nonlinear expressions ZHY

Properties of operations

4. Multiply using the distributive property NUY
5. Multiply using the distributive property: area models J8K
6. Write equivalent expressions using properties 6XR
7. Add and subtract linear expressions 6BT
8. Factors of linear expressions J9G

Equivalent linear expressions

9. Identify equivalent linear expressions using algebra tiles 38V
10. Identify equivalent linear expressions I DRB
11. Identify equivalent linear expressions II KAR
12. Identify equivalent linear expressions: word problems KWH

RIT Score: 225–226

Standard

IXL skills

Expressions and Equations

Equations

1. Model and solve equations using algebra tiles EGK
2. Solve two-step equations QEB
3. Solve two-step equations: word problems D2Y
4. Solve equations involving like terms VSW
5. Solve equations: complete the solution 66R
6. Evaluate two-variable equations: word problems YJT

Inequalities

7. Solve one-step inequalities QWH
8. Graph solutions to one-step inequalities TFK
9. Solve two-step inequalities XGQ
10. Graph solutions to two-step inequalities 6TT
11. One-step inequalities: word problems 6HD

Use Functions to Model Relationships

Slope

1. Find the slope from a graph YH9
2. Find the slope from two points VZG
3. Graph a line using slope CHR

Functions

4. Write a two-variable equation 94Q
5. Write a linear equation from a graph 78T

RIT Score: 227–227

Standard	IXL skills
Expressions and Equations	<p>Exponents</p> <ol style="list-style-type: none">1. Understanding negative exponents YBB2. Evaluate negative exponents WGS3. Multiplication and division with exponents L2J4. Power rule AEQ <p>Square roots and cube roots</p> <ol style="list-style-type: none">5. Solve equations using square roots NNA6. Solve equations using cube roots TQ5 <p>Scientific notation</p> <ol style="list-style-type: none">7. Compare numbers written in scientific notation RHT8. Convert between standard and scientific notation H8A <p>Equations</p> <ol style="list-style-type: none">9. Model and solve equations using algebra tiles D4510. Solve equations: mixed review HZZ11. Solve multi-step equations: complete the solution PGH
Use Functions to Model Relationships	<p>Slope</p> <ol style="list-style-type: none">1. Find the slope of a graph D7M2. Find the slope from two points ZAC <p>Functions</p> <ol style="list-style-type: none">3. Identify functions ELJ4. Does (x, y) satisfy the linear function? 5BD

RIT Score: 228–228**Standard****IXL skills**

Expressions and Equations

Solutions to equations

1. Find the number of solutions XDE
2. Create equations with no solutions or infinitely many solutions 7TY

Linear equations

3. Slope-intercept form: find the slope and y-intercept U55
4. Graph a line using slope FSV
5. Write a linear equation from a graph WHM
6. Graph a line from an equation in slope-intercept form W5E

Solutions to systems of equations

7. Is (x, y) a solution to the system of equations? N46
8. Find the number of solutions to a system of equations by graphing AGZ
9. Find the number of solutions to a system of equations UYM

Solve systems by graphing

10. Solve a system of equations by graphing WV5
11. Solve a system of equations by graphing: word problems W9J

Solve systems using substitution

12. Solve a system of equations using substitution J8X
13. Solve a system of equations using substitution: word problems 9M8

Solve systems using elimination

14. Solve a system of equations using elimination ZQV
15. Solve a system of equations using elimination: word problems Z97

Solve systems using any method

16. Solve a system of equations using any method AM5
17. Solve a system of equations using any method: word problems VHE

Use Functions to Model Relationships**Write linear functions**

1. Write a linear equation from a slope and y-intercept WHP
2. Write a linear equation from a slope and a point VKP
3. Write a linear equation from two points 2R9
4. Write a linear function from a table UYY
5. Write linear functions: word problems YK6

Evaluate and graph functions

6. Evaluate a linear function LNV
7. Complete a table for a linear function D9B
8. Complete a table and graph a linear function DC2
9. Find values using function graphs 7N2
10. Complete a table for a function graph 7EK

Interpret graphs

11. Interpret points on the graph of a linear function 9E8

Compare linear functions

12. Compare linear functions: graphs and equations BQQ
13. Compare linear functions: tables, graphs, and equations N7D

Identify linear and nonlinear functions

14. Identify linear and nonlinear functions: tables VGS
 15. Identify linear and nonlinear functions: graphs and equations XB8
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RIT Score: 229–234

Standard	IXL skills
Expressions and Equations	<p>Properties</p> <ol style="list-style-type: none">1. Properties of equality H8Q2. Identify equivalent equations XNQ <p>Use properties with expressions</p> <ol style="list-style-type: none">3. Simplify variable expressions using properties HHR4. Simplify variable expressions involving like terms and the distributive property ZXX <p>Expressions</p> <ol style="list-style-type: none">5. Sort factors of variable expressions ML9 <p>Equations</p> <ol style="list-style-type: none">6. Write variable equations YVW7. Write and solve linear equations that represent diagrams GBC8. Solve advanced linear equations 28N9. Solve linear equations with variables on both sides 7S710. Solve linear equations: complete the solution EVP11. Rearrange multi-variable equations WSJ <p>Inequalities</p> <ol style="list-style-type: none">12. Solve advanced linear inequalities 9K813. Graph solutions to advanced linear inequalities 5GC14. Graph compound inequalities BQX15. Write compound inequalities from graphs 6UV <p>Linear equations</p> <ol style="list-style-type: none">16. Slope-intercept form: graph an equation UWB17. Slope-intercept form: write an equation from a graph 9GW

Systems of equations

18. Solve a system of equations using any method HLV
19. Solve a system of equations using any method: word problems GDQ

Use Functions to Model Relationships**Relations and functions**

1. Domain and range of relations 2CG
2. Identify independent and dependent variables N55
3. Identify functions VLL
4. Identify functions: vertical line test HLX

Rate of change

5. Rate of change: graphs BNH

Evaluate and graph functions

6. Find values using function graphs QCG
7. Evaluate a function R96
8. Complete a function table from a graph HXF
9. Complete a function table from an equation Z73
10. Complete a table and graph a linear function JFG

Interpret functions

11. Interpret the graph of a function: word problems STU
12. Interpret functions using everyday language U98

Identify linear functions

13. Identify linear functions from graphs and equations VMQ
14. Identify linear functions from tables F5G

Write linear functions

15. Slope-intercept form: write an equation A42
16. Slope-intercept form: write an equation from a table SSE
17. Slope-intercept form: write an equation from a word problem HWM
18. Write and solve two-variable linear equations: word problems 9RQ

RIT Score: 235+

Standard	IXL skills
Expressions and Equations	<p>Equations</p> <ol style="list-style-type: none"> Solve linear equations: mixed review DN6 Consecutive integer problems HDF <p>Compound inequalities</p> <ol style="list-style-type: none"> Solve compound inequalities GXA Graph solutions to compound inequalities LHX <p>Linear functions</p> <ol style="list-style-type: none"> Relate the graph of an equation to its solutions L8U Write equations in standard form ESP Standard form: graph an equation U6U Point-slope form: graph an equation F8H
Use Functions to Model Relationships	<p>Evaluate functions</p> <ol style="list-style-type: none"> Evaluate a function: plug in an expression VNZ Evaluate an exponential function D6H Evaluate piecewise-defined functions 86S <p>Complete function tables</p> <ol style="list-style-type: none"> Complete a function table: quadratic functions LfV Complete a function table: absolute value functions 2DH <p>Linear functions</p> <ol style="list-style-type: none"> Transformations of linear functions C8G Standard form: find x- and y-intercepts 8SN Linear functions over unit intervals L5P

The Real and Complex Number Systems

RIT Score: Less than 215

Standard	IXL skills
Ratios and Proportional Relationships	<p>Customary units</p> <ol style="list-style-type: none"> 1. Compare and convert customary units of length 7E8 2. Compare and convert customary units of weight XST 3. Compare and convert customary units of volume 96B 4. Compare and convert customary units 8DZ 5. Conversion tables - customary units 7HU <p>Metric units</p> <ol style="list-style-type: none"> 6. Compare and convert metric units of length 8MZ 7. Compare and convert metric units of weight TM9 8. Compare and convert metric units of volume 27C 9. Compare and convert metric units PJL 10. Convert metric units involving decimals 2Q8 11. Conversion tables - metric units 7QS
Perform Operations	<p>Whole number multiplication</p> <ol style="list-style-type: none"> 1. Multiply 2-digit numbers by larger numbers 9VQ 2. Multiply by 2-digit numbers: word problems J95 3. Multiply by 3-digit numbers NSP 4. Multiply three numbers up to 3 digits each 7JG 5. Multiply three or more numbers: word problems 2AK <p>Whole number division</p> <ol style="list-style-type: none"> 6. Divide 2-digit and 3-digit numbers by 2-digit numbers HMA 7. Divide 2-digit and 3-digit numbers by 2-digit numbers: word problems AJW 8. Divide 4-digit numbers by 2-digit numbers 35K

9. Divide 4-digit numbers by 2-digit numbers: word problems J8L

Add and subtract fractions

10. Add fractions with unlike denominators D9N
11. Subtract fractions with unlike denominators VSP
12. Add mixed numbers with unlike denominators FHD
13. Subtract mixed numbers with unlike denominators FAA
14. Add and subtract fractions with unlike denominators: word problems TCD
15. Add and subtract mixed numbers: word problems 6BH
16. Estimate sums and differences of fractions using benchmarks 9JR
17. Add and subtract fractions with like denominators: word problems 7YQ
18. Add 3 or more fractions: word problems BFQ
19. Add and subtract fractions in recipes W9K

Multiply fractions and whole numbers

20. Fractions of a number I AHX
21. Fractions of a number: word problems LPC
22. Fractions of a number II 8DG

Multiply fractions

23. Multiply two unit fractions using models HDJ
24. Multiply two fractions using models UAY

Scale by fractions

25. Scaling whole numbers by fractions: justify your answer Q7M

Area

26. Understand fraction multiplication and area NFK
27. Area of squares and rectangles with fractions PMV

Divide fractions

28. Divide unit fractions and whole numbers using area models A7W
29. Divide whole numbers by unit fractions using models VDU
30. Divide fractions by whole numbers FKT

Extend and Use Properties

1. Compare decimal numbers NSG
2. Compare decimals using grids QTG
3. Compare decimals on number lines CUF

RIT Score: 215–217

Standard

IXL skills

Ratios and Proportional Relationships

Customary units

1. Compare customary units by multiplying WU8
2. Convert customary units involving fractions WCM
3. Convert mixed customary units E8E
4. Add and subtract mixed customary units DJC

Metric units

5. Convert metric mixed units LCG
6. Add and subtract metric mixed units 6LL

Multi-step problems

7. Multi-step problems with customary unit conversions MJ9
8. Multi-step problems with metric unit conversions X5T
9. Multi-step problems with customary or metric unit conversions ST6

Perform Operations

Multiply and divide by powers of ten

1. Multiply a decimal by a power of ten DN2
2. Multiply a whole number by a power of ten: with exponents 92K
3. Multiply a decimal by a power of ten: with exponents 5KC
4. Multiply by 0.1 or 0.01 85W
5. Divide by powers of ten H2N

6. Divide by a power of ten: with exponents CL2
7. Divide by 0.1 or 0.01 WD7
8. Multiply and divide by a power of ten: with exponents FXQ

Multiply and divide decimals

9. Multiply a decimal by a multi-digit whole number PGM
10. Multiply two decimals: products up to thousandths TDG
11. Division with decimal quotients J9Z
12. Divide by decimals 8FT

Decimal operations

13. Add, subtract, multiply, and divide decimals NZG
14. Add, subtract, multiply, and divide decimals: word problems 7SX

Fractions

15. Relate division and fractions D86

Multiply fractions and mixed numbers

16. Multiply two fractions 8KV
17. Multiply a mixed number by a whole number 6Q4
18. Multiply a mixed number by a fraction G7W
19. Multiply two mixed numbers P73
20. Multiply two fractions: word problems 38Y
21. Multiplication with mixed numbers: word problems 5W6
22. Multiply fractions and mixed numbers in recipes QHN

Scale by fractions

23. Scaling whole numbers by fractions QH2
24. Scaling fractions by fractions 9RF
25. Scaling mixed numbers by fractions S6B

Divide fractions and whole numbers

26. Divide unit fractions by whole numbers GXY
27. Divide whole numbers by unit fractions 3L9

Exponents

28. Evaluate powers of ten XTY

Extend and Use Properties

Coordinate plane

1. Describe the coordinate plane PF8
2. Objects on a coordinate plane NTR
3. Graph points on a coordinate plane AST
4. Graph points from a table HWV
5. Coordinate planes as maps ZBD
6. Follow directions on a coordinate plane XQR

Customary and metric units

7. Multi-step problems with customary unit conversions MJ9
8. Multi-step problems with metric unit conversions X5T
9. Multi-step problems with customary or metric unit conversions ST6

RIT Score: 218–219

Standard

IXL skills

Ratios and Proportional Relationships

Ratios

1. Write a ratio 83K
2. Write a ratio: word problems SBQ
3. Which model represents the ratio? 66V

Equivalent ratios

4. Identify equivalent ratios 2LM
5. Write an equivalent ratio NEA
6. Equivalent ratios: word problems RLZ

Tables and graphs

7. Ratio tables PPF
8. Ratios and rates: complete a table and make a graph 6Z2

Rates

9. Unit rates JSZ
10. Ratios and rates: word problems ZB9

11. Compare rates: word problems NAF

Convert units

12. Convert and compare customary units 9TJ
13. Convert, compare, add, and subtract mixed customary units 97L
14. Customary unit conversions involving fractions and mixed numbers UHE
15. Convert and compare metric units FDH
16. Convert between customary and metric systems 5CF

Multiply or divide quantities

17. Multiply and divide mixed customary units GVX

Perform Operations

Divide whole numbers

1. Division patterns with zeroes CEZ
2. Divide numbers ending in zeroes: word problems 95H
3. Divide whole numbers - 2-digit divisors FL2
4. Divide whole numbers - 3-digit divisors STW

Factors and multiples

5. Identify factors BGJ
6. Greatest common factor AMB
7. Least common multiple NGA
8. Find all the factor pairs of a number VTM
9. GCF and LCM: word problems ZB8

Add and subtract decimals

10. Add and subtract decimal numbers 79J
11. Add and subtract decimals: word problems 97T
12. Maps with decimal distances J7D
13. Complete the decimal addition or subtraction sentence QRH

Extend and Use Properties

Decimals

1. Decimal number lines AXN

Integers

2. Understanding integers 8EP

3. Integers on number lines K6J
4. Graph integers on horizontal and vertical number lines 36C
5. Compare integers 4G6
6. Compare temperatures above and below zero UVD

Coordinate plane

7. Objects on a coordinate plane GFN
8. Graph points on a coordinate plane VHQ
9. Coordinate planes as maps N96
10. Follow directions on a coordinate plane XDQ

RIT Score: 220–221

Standard	IXL skills
Ratios and Proportional Relationships	<p>Percents</p> <ol style="list-style-type: none"> 1. What percentage is illustrated? RHG 2. Solve percent problems using grid models YX6 3. Percents of numbers and money amounts 8N4 4. Percents of numbers: word problems BBY 5. Find the total given a part and a percent D6L <p>Consumer math</p> <ol style="list-style-type: none"> 6. Which is the better coupon? WLZ 7. Sale prices 5GH <p>Unit prices</p> <ol style="list-style-type: none"> 8. Unit prices UKD 9. Unit prices with fractions and decimals 9NF 10. Unit prices with customary unit conversions RW2
Perform Operations	<p>Multiply and divide decimals</p> <ol style="list-style-type: none"> 1. Multiply decimals 2WT 2. Divide decimals by whole numbers NLL 3. Divide decimals by whole numbers: word problems TWZ 4. Multiply and divide decimals by powers of ten KNH

5. Division with decimal quotients BFR

Divide fractions and mixed numbers

6. Reciprocals 5BT

7. Divide fractions by whole numbers in recipes ENK

8. Divide fractions DS2

9. Divide fractions and mixed numbers N2B

10. Divide fractions and mixed numbers: word problems WAH

Mixed operations with decimals

11. Add, subtract, multiply, or divide two decimals P6W

12. Add, subtract, multiply, or divide two decimals: word problems 8HT

Extend and Use Properties

Compare and order rational numbers

1. Rational numbers on number lines DJE

2. Compare rational numbers KS2

3. Put rational numbers in order 5AX

4. Compare and order rational numbers: word problems ETK

5. Compare and order rational numbers using number lines FMS

Absolute value and opposites

6. Absolute value 2YZ

7. Absolute value of rational numbers KGX

8. Opposites of rational numbers E8R

9. Rational numbers: find the sign V2E

10. Absolute value and integers: word problems 9CW

11. Integer inequalities with absolute values 4A8

Coordinate plane

12. Graph points on a coordinate plane VHQ

13. Reflect a point over an axis 32S

14. Quadrants F5T

15. Distance between two points A7P

RIT Score: 222–224

Standard	IXL skills
Ratios and Proportional Relationships	<p>Equivalent ratios</p> <ol style="list-style-type: none">1. Identify equivalent ratios ZFM2. Equivalent ratios: word problems DJ8 <p>Proportions</p> <ol style="list-style-type: none">3. Do the ratios form a proportion? MJQ4. Do the ratios form a proportion: word problems SHV5. Solve proportions: word problems WB7 <p>Constant of proportionality</p> <ol style="list-style-type: none">6. Find the constant of proportionality from a table LKZ7. Find the constant of proportionality from a graph ZUT <p>Write equations for proportional relationships</p> <ol style="list-style-type: none">8. Write equations for proportional relationships from tables 6GU9. Write equations for proportional relationships from graphs JKH10. Write and solve equations for proportional relationships VKK <p>Identify proportional relationships</p> <ol style="list-style-type: none">11. Identify proportional relationships by graphing AAN12. Identify proportional relationships from graphs and equations NB513. Identify proportional relationships from tables 6V7 <p>Interpret graphs of proportional relationships</p> <ol style="list-style-type: none">14. Interpret graphs of proportional relationships RMH
Perform Operations	<p>Integers</p> <ol style="list-style-type: none">1. Add integers QFU2. Subtract integers HEU

3. Add and subtract integers FNS
4. Multiply integers DQT
5. Divide integers CTV
6. Multiply and divide integers R8D
7. Add, subtract, multiply, and divide integers B8A

Decimals

8. Add and subtract decimals BP2
9. Multiply decimals TCU
10. Divide decimals 6HB
11. Add, subtract, multiply, and divide decimals: word problems TGN
12. Add, subtract, multiply, and divide money amounts: word problems HGN

Fractions

13. Add and subtract fractions NGL
14. Add and subtract mixed numbers 9BE
15. Multiply fractions PDK
16. Multiply mixed numbers JNY
17. Divide fractions X7A
18. Divide mixed numbers UPF
19. Add, subtract, multiply, and divide fractions and mixed numbers: word problems KR7

Extend and Use Properties

Classify numbers

1. Classify numbers WVQ

Quantities that combine to zero

2. Quantities that combine to zero: word problems 7SP

Add integers

3. Integer addition rules ERH
4. Add integers using number lines A63
5. Add integers using counters FTM

Subtract integers

6. Integer subtraction rules QZA
7. Subtract integers using number lines FGG
8. Subtract integers using counters BGL

Multiply and divide integers

9. Integer multiplication rules K7U
10. Understand multiplying by a negative integer using a number line NB8
11. Integer division rules T9Q
12. Equal quotients of integers 2QY
13. Integer multiplication and division rules 5R8

RIT Score: 225–226

Standard	IXL skills
Ratios and Proportional Relationships	<p>Proportions</p> <ol style="list-style-type: none"> 1. Estimate population size using proportions 3C9 <p>Percents</p> <ol style="list-style-type: none"> 2. Percents of numbers and money amounts 93K 3. Percents of numbers: word problems EXE 4. Solve percent equations 67F 5. Solve percent equations: word problems JS6 <p>Percent of change</p> <ol style="list-style-type: none"> 6. Percent of change BL7 7. Percent of change: word problems 54S 8. Percent of change: find the original amount word problems RCM <p>Unit rates and unit prices</p> <ol style="list-style-type: none"> 9. Calculate unit rates with fractions 57X 10. Unit prices N7G 11. Unit prices with unit conversions KJ8 12. Unit prices: find the total price ENH <p>Consumer math</p> <ol style="list-style-type: none"> 13. Percent of a number: tax, discount, and more SPN 14. Which is the better coupon? QT6 15. Find the percent: tax, discount, and more PBM 16. Sale prices: find the original price BDA 17. Multi-step problems with percents ZHX

Simple interest

18. Simple interest E7Y

Perform Operations**Integers**

1. Complete addition and subtraction equations with integers P6A
2. Complete multiplication and division equations with integers K94

Decimals

3. Add and subtract positive and negative decimals WCZ
4. Multiply and divide positive and negative decimals K7V

Fractions

5. Add and subtract positive and negative fractions SD2
6. Multiply and divide positive and negative fractions 2B5

Rational numbers

7. Add and subtract rational numbers GKU
8. Multiply and divide rational numbers BXW

Extend and Use Properties**Fractions and decimals**

1. Convert fractions or mixed numbers to decimals M2D

Quotients of rational numbers

2. Identify quotients of rational numbers: word problems JT9

Operation rules

3. Apply addition and subtraction rules Y8T
4. Apply multiplication and division rules V5V

Order of operations

5. Evaluate numerical expressions involving integers 7YN
6. Evaluate numerical expressions involving decimals FNM
7. Evaluate numerical expressions involving fractions XXQ

RIT Score: 227–227

Standard	IXL skills
Ratios and Proportional Relationships	<p>Constant of proportionality</p> <ol style="list-style-type: none">1. Find the constant of proportionality from a table ZCK2. Find the constant of proportionality from a graph YMH <p>Equations</p> <ol style="list-style-type: none">3. Write equations for proportional relationships from tables S694. Write equations for proportional relationships from graphs G7N <p>Graphs</p> <ol style="list-style-type: none">5. Graph proportional relationships and find the slope MQD6. Interpret graphs of proportional relationships Q96 <p>Rate of change</p> <ol style="list-style-type: none">7. Constant rate of change ZPF
Perform Operations	<ol style="list-style-type: none">1. Multiply numbers written in scientific notation YZU2. Divide numbers written in scientific notation SGT3. Add and subtract numbers written in scientific notation HUR4. Scientific notation on calculators 62V
Extend and Use Properties	<ol style="list-style-type: none">1. Identify rational and irrational numbers NV62. Write a repeating decimal as a fraction WD6

RIT Score: 228–228

Standard	IXL skills
Perform Operations	<p>Expressions with exponents</p> <ol style="list-style-type: none"> Evaluate expressions using properties of exponents UTY Identify equivalent expressions involving exponents I VLM Identify equivalent expressions involving exponents II QDM <p>Square roots</p> <ol style="list-style-type: none"> Square roots of perfect squares 9RS Positive and negative square roots 8TF Relationship between squares and square roots 8W2 <p>Cube roots</p> <ol style="list-style-type: none"> Cube roots of positive perfect cubes RYG
Extend and Use Properties	<ol style="list-style-type: none"> Estimate positive and negative square roots 96T Estimate cube roots RLC Estimate positive square roots XWJ

RIT Score: 229–234

Standard	IXL skills
Extend and Use Properties	<ol style="list-style-type: none"> Sort rational and irrational numbers ALH Classify rational and irrational numbers 3S8 Precision QK9

RIT Score: 235+

Standard	IXL skills
Perform Operations	<ol style="list-style-type: none"> Weighted averages: word problems 2TQ
Extend and Use Properties	<ol style="list-style-type: none"> Properties of operations on rational and irrational numbers C7S

Geometry

RIT Score: Less than 215

Standard	IXL skills
Geometric Measurement and Relationships	<p>Triangles</p> <ol style="list-style-type: none"> Acute, obtuse, and right triangles N77 Scalene, isosceles, and equilateral triangles R94 Classify triangles C64 <p>Quadrilaterals</p> <ol style="list-style-type: none"> Classify quadrilaterals 6ZQ Identify the relationships between quadrilaterals KCG Describe relationships among quadrilaterals SZT <p>Customary and metric units</p> <ol style="list-style-type: none"> Conversion tables - customary units 7HU Conversion tables - metric units 7QS
Congruence, Similarity, Right Triangles, & Trig	<ol style="list-style-type: none"> Points, lines, line segments, rays, and angles E7K Types of angles RGW

RIT Score: 215–217

Standard	IXL skills
Geometric Measurement and Relationships	<p>Polygons</p> <ol style="list-style-type: none"> Is it a polygon? ZH6 Regular and irregular polygons UHC Sort polygons into Venn diagrams US8 <p>Area and perimeter</p> <ol style="list-style-type: none"> Understand fraction multiplication and area NFK Multiply fractions to find area SEZ Area of squares and rectangles with fractions PMV Area and perimeter: word problems MHV

Volume

8. Volume of rectangular prisms made of unit cubes WG8
9. Volume of cubes and rectangular prisms: word problems NR6
10. Compare volumes and dimensions of rectangular prisms: word problems JP6
11. Volume of compound figures J83

Congruence, Similarity, Right Triangles, & Trig

1. Angles of 90, 180, 270, and 360 degrees ULP
2. Measure angles with a protractor GSJ

RIT Score: 218–219**Standard****IXL skills**

Geometric Measurement and Relationships

Triangles

1. Area of triangles C8S
2. Understanding area of a triangle PLL

Quadrilaterals

3. Area of trapezoids PKW
4. Area of quadrilaterals 27F
5. Area of rhombuses 2QG
6. Understanding area of a parallelogram QMU
7. Area of parallelograms Y8K
8. Understanding area of a trapezoid 42R

Compound figures

9. Area of compound figures 76U

Congruence, Similarity, Right Triangles, & Trig

1. Measure and classify angles HTH
2. Classify triangles XM6

RIT Score: 220–221**Standard****IXL skills**

Geometric Measurement and Relationships

Coordinate plane

1. Area and perimeter of squares and rectangles on the coordinate plane UCD
2. Graph triangles and quadrilaterals E55

Volume

- 3. Volume of cubes and rectangular prisms XHF
- 4. Volume of cubes and rectangular prisms: word problems BBM
- 5. Volume of cubes and rectangular prisms with fractional side lengths BQK

Surface area

- 6. Surface area of cubes and rectangular prisms RMG
- 7. Surface area of triangular prisms UGR
- 8. Surface area of pyramids 5XW

Congruence, Similarity, Right Triangles, & Trig

- 1. Name angles BLY

RIT Score: 222–224

Standard	IXL skills
Geometric Measurement and Relationships	<p>Triangles and quadrilaterals</p> <ul style="list-style-type: none"> 1. Graph triangles and quadrilaterals MEZ 2. Triangle inequality 5RX <p>Angles</p> <ul style="list-style-type: none"> 3. Identify complementary, supplementary, vertical, and adjacent angles HKG 4. Find measures of complementary, supplementary, vertical, and adjacent angles CST <p>Circles</p> <ul style="list-style-type: none"> 5. Parts of a circle 2VL <p>Area</p> <ul style="list-style-type: none"> 6. Area of rectangles and parallelograms 62H 7. Area of triangles and trapezoids ENE

RIT Score: 225–226

Standard	IXL skills
Geometric Measurement and Relationships	<p>Scale drawings</p> <ol style="list-style-type: none"> Scale drawings: scale factor word problems KCM Scale drawings: word problems 84H <p>Three-dimensional figures</p> <ol style="list-style-type: none"> Bases of three-dimensional figures RF6 Cross sections of three-dimensional figures HFJ <p>Circles</p> <ol style="list-style-type: none"> Area of circles YA8 Circumference of circles KS7 Circles: word problems P56 <p>Area</p> <ol style="list-style-type: none"> Area of compound figures with triangles MRG Area of compound figures with triangles, semicircles, and quarter circles N97 Area between two shapes RKC <p>Volume</p> <ol style="list-style-type: none"> Volume of cubes and prisms URT Volume of cubes and rectangular prisms: word problems 8WV <p>Surface area</p> <ol style="list-style-type: none"> Surface area of cubes and prisms RFP

RIT Score: 227–227

Standard	IXL skills
Geometric Measurement and Relationships	<ol style="list-style-type: none"> Volume of cylinders 9F3
Congruence, Similarity, Right Triangles, & Trig	<p>Distance between points</p> <ol style="list-style-type: none"> Find the distance between two points ZBP <p>Triangles</p> <ol style="list-style-type: none"> Find missing angles in triangles JFJ

3. Find missing angles in triangles using ratios 59G
4. Exterior Angle Theorem FMP
5. Triangle Angle-Sum Theorem 6Q6

Transversals of parallel lines

6. Transversals of parallel lines: find angle measures V99
7. Identify alternate interior and alternate exterior angles 8EM
8. Transversals of parallel lines: name angle pairs ZLF

RIT Score: 228–228

Standard	IXL skills
Geometric Measurement and Relationships	<ol style="list-style-type: none"> 1. Volume of cones Y9R 2. Volume of spheres QX7
Congruence, Similarity, Right Triangles, & Trig	<p>Transformations</p> <ol style="list-style-type: none"> 1. Identify reflections, rotations, and translations UYL <p>Translations</p> <ol style="list-style-type: none"> 2. Translations: graph the image XUS 3. Translations: find the coordinates RUP <p>Reflections</p> <ol style="list-style-type: none"> 4. Reflections: graph the image NBM 5. Reflections: find the coordinates KUX 6. Reflections over the x- and y-axes: graph the image 74Z 7. Reflections over the x- and y-axes: find the coordinates 5UM <p>Rotations</p> <ol style="list-style-type: none"> 8. Rotations: graph the image AC9 9. Rotations: find the coordinates HHS <p>Sequences of transformations</p> <ol style="list-style-type: none"> 10. Describe a sequence of transformations XPK

- Sequences of congruence transformations: graph the image C53

Similar and congruent figures

- Congruence statements and corresponding parts LPP
- Side lengths and angle measures of congruent figures DSQ
- Similar and congruent figures U85

Dilations

- Dilations: graph the image 9T4
- Dilations: find the coordinates UV9

Pythagorean theorem

- Pythagorean theorem: find the length of the hypotenuse 7ZL
- Pythagorean theorem: find the missing leg length Y9C
- Pythagorean theorem: find the perimeter VGE
- Pythagorean theorem: word problems 87U
- Converse of the Pythagorean theorem: is it a right triangle? EQZ

RIT Score: 229–234

Standard	IXL skills
Geometric Measurement and Relationships	<p>Volume</p> <ol style="list-style-type: none"> Volume of prisms and cylinders N5F Volume of pyramids and cones 7J3 Volume of spheres 62N <p>Midpoints</p> <ol style="list-style-type: none"> Midpoints 7RH
Congruence, Similarity, Right Triangles, & Trig	<p>Angles</p> <ol style="list-style-type: none"> Angle vocabulary 9U2 <p>Translations</p> <ol style="list-style-type: none"> Translations: graph the image 7AC Translations: find the coordinates F8U

4. Translations: write the rule 9PR

Reflections

5. Reflections: graph the image SM9

6. Reflections: find the coordinates SVY

Rotations

7. Rotations: graph the image 6SD

8. Rotations: find the coordinates ZX5

Congruence transformations

9. Classify congruence transformations CXT

10. Congruence transformations: mixed review XQ7

Dilations

11. Dilations: graph the image ZRD

12. Dilations: find the coordinates 5KZ

13. Dilations: find the scale factor ZDM

Similar figures

14. Identify similar figures 85X

15. Side lengths and angle measures in similar figures E2K

Pythagorean theorem

16. Pythagorean theorem F55

17. Converse of the Pythagorean theorem NCK

RIT Score: 235+

Standard

Geometric Measurement and Relationships

IXL skills

Line segments

1. Partition a line segment in a given ratio J42

2. Distance formula 59F

Area and perimeter

3. Area and perimeter in the coordinate plane

I QWZ

Area and volume

4. Minimum and maximum area and volume 4V9
5. Percent error: area and volume XVT

Density, mass, and volume

6. Calculate density, mass, and volume YKJ

Three-dimensional figures

7. Cross sections of three-dimensional figures 7Z4
8. Solids of revolution LKT

Congruence, Similarity, Right Triangles, & Trig**Congruence transformations**

1. Transformations that carry a polygon onto itself RJW
2. Sequences of congruence transformations: graph the image WHW
3. Sequences of congruence transformations: find the rules GFH

Dilations

4. Dilations: find length, perimeter, and area WLC

Similar triangles

5. Similar triangles and indirect measurement JWK
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Statistics and Probability

RIT Score: Less than 215

Standard	IXL skills
Interpreting Categorical and Quantitative Data	1. Create and interpret line plots with fractions XBS

RIT Score: 215–217

Standard	IXL skills
Interpreting Categorical and Quantitative Data	1. Create and interpret line plots with fractions XBS

RIT Score: 218–219

Standard	IXL skills
Interpreting Categorical and Quantitative Data	<p>Line plots</p> <p>1. Create line plots 5HD</p> <p>Measures of center and variability</p> <p>2. Calculate mean, median, mode, and range ZZK</p> <p>3. Interpret charts and graphs to find mean, median, mode, and range 2WK</p>

RIT Score: 220–221

Standard	IXL skills
Interpreting Categorical and Quantitative Data	<p>Statistical questions</p> <p>1. Identify statistical questions PT7</p> <p>Stem-and-leaf plots</p> <p>2. Create stem-and-leaf plots 7VE</p> <p>3. Interpret stem-and-leaf plots 2E8</p> <p>Box plots</p> <p>4. Box plots E9F</p>

Measures of center and variability

5. Mean, median, mode, and range: find the missing number [77K](#)
6. Calculate mean absolute deviation [JUV](#)
7. Calculate quartiles and interquartile range [MNV](#)
8. Describe distributions in line plots [RZL](#)

Outliers

9. Identify an outlier and describe the effect of removing it [8Q5](#)

RIT Score: 222–224

Standard	IXL skills
Interpreting Categorical and Quantitative Data	<ol style="list-style-type: none"> 1. Calculate mean, median, mode, and range U2A 2. Interpret charts and graphs to find mean, median, mode, and range CYK
Using Sampling and Probability to Make Decisions	<ol style="list-style-type: none"> 1. Probability of simple events ZZB 2. Probability of simple events and opposite events F88 3. Make predictions using theoretical probability 9UW 4. Experimental probability 9AA

RIT Score: 225–226

Standard	IXL skills
Interpreting Categorical and Quantitative Data	<ol style="list-style-type: none"> 1. Mean, median, mode, and range: find the missing number ZWS 2. Changes in mean, median, mode, and range 9UP
Using Sampling and Probability to Make Decisions	<p>Estimate population size</p> <ol style="list-style-type: none"> 1. Estimate population size using proportions 3C9 <p>Identify samples</p> <ol style="list-style-type: none"> 2. Identify representative, random, and biased samples 5V3

Compound events

3. Probability of compound events YPQ
4. Compound events: find the number of outcomes HZR
5. Compound events: find the number of sums SCV
6. Find the number of outcomes: word problems EKX

Independent and dependent events

7. Identify independent and dependent events 9M6
8. Probability of independent and dependent events NED

RIT Score: 227–227

Standard	IXL skills
Interpreting Categorical and Quantitative Data	<ol style="list-style-type: none"> 1. Identify trends with scatter plots GZE 2. Create scatter plots AVL
Using Sampling and Probability to Make Decisions	<p>Make predictions</p> <ol style="list-style-type: none"> 1. Make predictions 38C <p>Compound events</p> <ol style="list-style-type: none"> 2. Compound events: find the number of outcomes P5R 3. Compound events: find the number of sums HCX <p>Independent and dependent events</p> <ol style="list-style-type: none"> 4. Identify independent and dependent events SRF 5. Probability of independent and dependent events SAS

RIT Score: 228–228

Standard	IXL skills
Interpreting Categorical and Quantitative Data	<ol style="list-style-type: none"> 1. Outliers in scatter plots RP8 2. Write equations for lines of best fit ZQ6

Using Sampling and Probability to Make Decisions

1. Find probabilities using two-way frequency tables CRV
2. Counting principle CNQ

RIT Score: 229–234

Standard	IXL skills
Interpreting Categorical and Quantitative Data	1. Write equations for lines of best fit <small>Y2S</small>
Using Sampling and Probability to Make Decisions	<p>Probability</p> <ol style="list-style-type: none"> 1. Theoretical and experimental probability <small>2L5</small> 2. Outcomes of compound events <small>82S</small> <p>Biased samples</p> <ol style="list-style-type: none"> 3. Identify biased samples <small>F6N</small>

RIT Score: 235+

Standard	IXL skills
Interpreting Categorical and Quantitative Data	1. Interpret a scatter plot <small>8BS</small>
Using Sampling and Probability to Make Decisions	<ol style="list-style-type: none"> 1. Identify independent and dependent events <small>GW9</small> 2. Probability of independent and dependent events <small>PJZ</small> 3. Geometric probability <small>KBK</small>