## MAP to Khan Academy:

## Khan Academy Practice Exercises Correlated to RIT <br> for Common Core Math MAP Grades 6+

## About this Document

This document correlates MAP ${ }^{\circledR}$ sub-goals and RIT ranges to Khan Academy ${ }^{\circledR}$ exercises. The Khan exercises are interactive problems for students with instant feedback:


Having these exercises correlated to RIT ranges means you can use them in conjunction with your flexible student groupings that are also informed by RIT score results. The exercises are also useful for targeting learning in each student's zone of proximal development (Vygotsky).

The correlation between MAP RIT scores and the Khan Academy exercises was determined by using our 2011 norms data to approximate grade levels, which were then matched to the corresponding Common Core State Standards (CCSS). Teachers in states that have not adopted the CCSS may still find these resources valuable by relating goals or sub-goals that are similar to CCSS goals and subgoals.

NWEA plans to work with Khan Academy to update these links twice a year as new exercises are developed.

## How to Use

1. Use MAP reports to find the RIT scores for a given sub-goal.
2. In this document, locate that same goal, approximate RIT range, and sub-goals.
3. To choose appropriate Khan Academy exercises:
a. Consider both the name of the exercise and the CCSS standard.
b. Click the link and try the exercise yourself.

Note: When you're in Khan Academy, the links to videos and other resources add context to the actual exercise but are not necessarily correlated to MAP.
4. In the browser window where the exercise opened, note or copy the Web address URL.
5. Optionally deliver exercises to students. For example:

- Paste the URL into an online document for students to access.
- Present the exercise in the classroom.
- Use for parent-teacher conference discussion.


## Limitations

The instructional suggestions presented in this document are intended to provide supplementary resources based on available Khan Academy exercises and are not intended to replace other options. MAP/MPG data should be used as one of many data points for instructional decisions rather than as a placement guide.

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# Common Core MAP Mathematics Khan Academy Practice Exercises Correlation Common Core Mathematics 6+ 

Geometry
Congruence, Similarity, Right Triangles, \& Trig ..... P 4
Geometric Measurement and Relationships ..... P 6
Operations and Algebraic Thinking
Expressions and Equations ..... P 10
Use Functions to Model Relationships ..... P 20
Statistics and Probability
Interpreting Categorical and Quantitative Data ..... P 24
Using Sampling and Probability to Make Decisions ..... P 27
The Real and Complex Number Systems
Extend and Use Properties ..... 28
Perform Operations ..... P 32
Ratios and Proportional Relationships ..... P 40

## Geometry

Congruence, Similarity, Right Triangles, \& Trig Standards Alignment
RIT Range: 203-212
Axis of symmetry ..... 4.G.A. 3
RIT Range: 204-212
Angle types ..... 4.G.A. 1
Quadrilateral types ..... 4.G.A. 2
Recognizing angles ..... 4.G.A. 1
RIT Range: 221-225
Nets of 3D figures ..... 6.G.A. 4
RIT Range: 226-230
Constructing scale drawings ..... 7.G.A. 1
Slicing 3D figures ..... 7.G.A. 3
Vertical angles ..... 7.G.B. 5
RIT Range: 228-230
Finding angle measures 1 ..... 8.G.A. 5
Finding angle measures 2 ..... 8.G.A. 5
Congruent angles ..... 8.G.A. 5
Distance formula ..... 8.G.B. 8
Exploring angle-preserving transformations and similarity ..... 8.G.A. 4
Exploring rigid transformations and congruence 8.G.A. 2 | HSG-CO.B. 6 | HSG-CO.B. 7
Parallel lines 1 ..... 8.G.A. 5
Equation practice with congruent angles ..... 8.G.A. 5
Performing reflections 8.G.A. 1 | 8.G.A. 3 | HSG-CO.A. 2
Performing rotations
Performing translations
8.G.A. 1 | 8.G.A. 3 | HSG-CO.A. 2
Pythagorean theorem ..... 8.G.B. 7
Pythagorean theorem in 3D ..... 8.G.B. 7
Pythagorean Theorem proofs ..... 8.G.B. 6

## Geometry

Congruence, Similarity, Right Triangles, \& Trig Standards Alignment
RIT Range: 228-230
Pythagorean theorem word problems ..... 8.G.B. 7
RIT Range: > 231
Applying right trianglesCongruency postulatesHSG-CO.B. 7 | HSG-CO.B. 8
Congruent triangles 1Congruent triangles 2
HSG-CO.B. 6
Compass constructions 1 ..... HSG-CO.D. 12
Compass constructions 2 ..... HSG-CO.D. 13
Defining congruence through rigid transformationsDefining similarity through angle-preserving transformationsHSG-SRT.A. 2 | HSG-SRT.A. 3
Dilations
HSG-SRT.A. 1
Exploring rigid transformations and congruence 8.G.A. 2 | HSG-CO.B. 6 | HSG-CO.B. 7
Line and angle proofs
Performing reflections
Performing rotations
Performing translations
Special right trianglesHSG-CO.C. 9
8.G.A. 1 | 8.G.A. 3 | HSG-CO.A. 2
8.G.A. 1 | 8.G.A. 3 | HSG-CO.A. 2
8.G.A. 1 | 8.G.A. 3 | HSG-CO.A. 2
Precisely defining rigid transformationsHSG-SRT.C. 8
Reflections 1 ..... HSG-CO.A. 5
Reflections 2 ..... HSG-CO.A. 5
Rotations 1 ..... HSG-CO.A. 5
Rotations 2 ..... HSG-CO.A. 5
Similar triangles 1 ..... HSG-SRT.A. 3
Similar triangles 2 ..... HSG-SRT.A. 3
Solving similar triangles 1 ..... HSG-SRT.A. 3
Solving similar triangles 2 ..... HSG-SRT.B. 5
Solving problems with similar and congruent triangles ..... HSG-SRT.B. 5
Symmetry of two-dimensional shapes ..... HSG-CO.A. 3

## Geometry

Congruence, Similarity, Right Triangles, \& Trig Standards Alignment
RIT Range: > 231
Translations ..... HSG-CO.A. 5
Trigonometric functions and side ratios in right triangles ..... HSG-SRT.C. 6 | HSG-SRT.C. 7
Geometry
Geometric Measurement and Relationships Standards Alignment
RIT Range: < 160
Comparing shapes ..... K.G.B. 4
Composing shapes ..... K.G.B. 6
Naming shapes ..... K.G.A. 1
RIT Range: 161-178
Naming shapes 3 ..... 1.G.A. 1
Measuring lengths 1 ..... 1.MD.A. 2
Order by length ..... 1.MD.A. 1
RIT Range: 179-191
Comparing lengths ..... 2.MD.A. 4
RIT Range: 179-191
Estimating lengths ..... 2.MD.A. 3
Length word problems ..... 2.MD.B. 5
Measuring lengths 2 ..... 2.MD.A. 1
Measuring lengths with different units ..... 2.MD.A. 2
Naming shapes 4 ..... 2.G.A. 1
RIT Range: 192-203
Decompose shapes to find area ..... 3.MD.C. 7
Finding area by multiplying ..... 3.MD.C. 7
RIT Range: 192-202
Comparing area and perimeter ..... 3.MD.D. 8

## Geometry

Geometric Measurement and Relationships Standards Alignment
RIT Range: 192-202
Comparing areas by multiplying ..... 3.MD.C.7b
Arithmetic word problems with mass ..... 3.MD.A. 2
Measuring area with unit squares ..... 3.MD.C. 6
Perimeter 1 ..... 3.MD.D. 8
Finding perimeter ..... 3.MD.D. 8
Perimeter 2 ..... 3.MD.D. 8
Understanding area ..... 3.MD.C.5 | 3.MD.C.5b
Arithmetic word problems with volume ..... 3.MD.A. 2
RIT Range: 203-212
Angle types ..... 4.G.A. 1
Area problems ..... 4.MD.A. 3
Area and perimeter of rectangles word problems ..... 4.MD.A. 3
Benchmark angles ..... 4.MD.C. 5
Classifying shapes by line and angle types ..... 4.G.A. 2
Decomposing angles ..... 4.MD.C. 7
Drawing angles ..... 4.MD.C. 6
Drawing rays, lines, and line segments ..... 4.G.A. 1
Drawing right, acute, and obtuse angles ..... 4.G.A. 1
Converting larger units to smaller units ..... 4.MD.A. 1
Measuring angles ..... 4.MD.C. 6
Converting money word problems ..... 4.MD.A. 2
Time word problems ..... 4.MD.A. 2
Naming angles ..... 4.MD.C. 5
Quadrilateral types ..... 4.G.A. 2
Recognizing rays, lines, and line segments ..... 4.G.A. 1
Recognizing angles ..... 4.G.A. 1
Recognizing parallel and perpendicular lines ..... 4.G.A. 1
Recognizing triangle types ..... 4.G.A. 2

## Geometry

Geometric Measurement and Relationships Standards Alignment
RIT Range: 203-212
Unit sense4.MD.A. 1
RIT Range: 213-220
Converting measurements word problems ..... 5.MD.A. 1
Converting units ..... 5.MD.A. 1
RIT Range: 213-219
Areas of rectangles with fractional side lengths ..... 5.NF.B.4b
Coordinate plane word problems in the first quadrant ..... 5.G.A. 2
Decompose figures to find volume 5.MD.C. 5 | 5.MD.C.5c
Graphing points
Properties of shapes5.G.A. 2
Visually understanding multiplying fractions and whole numbers
Understanding multiplying fractions by fractions
Volume 1
Volume word problems
Volume with unit cubes 1
Volume formula intuition
Comparing volumes with unit cubes5.MD.C. 4 | 5.MD.C. 5 | 5.MD.C.5b
RIT Range: 220-223
Area of parallelograms ..... 6.G.A. 1
Area of triangles ..... 6.G.A. 1
Area of quadrilaterals and polygons ..... 6.G.A. 1
Area of triangles 2 ..... 6.G.A. 1
Area of trapezoids, rhombi, and kites ..... 6.G.A. 1
Finding area by composing and decomposing shapes ..... 6.G.A. 1
Drawing polygons ..... 6.G.A. 3
Drawing polygons 2 ..... 6.G.A. 3
Nets of 3D figures ..... 6.G.A. 4

## Geometry

Geometric Measurement and Relationships Standards Alignment
RIT Range: 220-223
Rectangles on the coordinate plane ..... 6.G.A. 3
Surface area using nets ..... 6.G.A. 4
Surface area ..... 6.G.A. 4
Volume with fractions ..... 6.G.A. 2
Volume with unit cubes 2 ..... 6.G.A. 2
Volume word problems with fractions and decimals ..... 6.G.A. 2
RIT Range: 224-227
Area of a circle ..... 7.G.B. 4
Area and circumference of circles ..... 7.G.B. 4
Complementary and supplementary angles ..... 7.G.B. 5
Constructing 2D figures ..... 7.G.A. 2
Constructing scale drawings ..... 7.G.A. 1
Constructing triangles ..... 7.G.A. 2
Interpreting scale drawings ..... 7.G.A. 1
Quadrilateral angles ..... 7.G.B. 5
Radius, diameter, and circumference ..... 7.G.B. 4
Slicing 3D figures ..... 7.G.A. 3
Solving for unknown angles ..... 7.G.B. 5
Vertical angles ..... 7.G.B. 5
RIT Range: 228-230
Solid geometry ..... 8.G.C. 9
Volume word problems with cones, cylinders, and spheres ..... 8.G.C. 9 | HSG-GMD.A. 3
RIT Range: > 231
Areas of circles and sectors ..... HSG-C.B. 5
Radians and arc length ..... HSG-C.B. 5
Central, inscribed, and circumscribed angles ..... HSG-C.A. 2 | HSG-C.A. 3
Circles and arcs ..... HSG-C.B. 5

## Geometry

Geometric Measurement and Relationships Standards Alignment
RIT Range: > 231
Coordinate plane word problems with polygons ..... HSG-GPE.B. 7
Cross sections of 3D objects ..... HSG-GMD.B. 4
Defining similarity through angle-preserving transformations ..... HSG-C.A. 1
Dividing line segments ..... HSG-GPE.B. 6
Equation of a circle in factored form ..... HSG-GPE.A. 1
Equation of a circle in non-factored form ..... HSG-GPE.A. 1
Geometry problems on the coordinate plane ..... HSG-GPE.B. 4
Inscribed angles 1 ..... HSG-C.A. 2
Inscribing and circumscribing circles on a triangle ..... HSG-C.A. 3
Equations of parallel and perpendicular lines ..... HSG-GPE.B. 5
Midpoint formula ..... HSG-GPE.B. 6
Parabola intuition 1 ..... HSG-GPE.A. 2
Parabola intuition 2 ..... HSG-GPE.A. 2
Parabola intuition 3 ..... HSG-GPE.A. 2
Pythagorean theorem and the equation of a circle ..... HSG-GPE.A. 1
Rotate 2D shapes to make 3D objects ..... HSG-GMD.B. 4
Volume word problems with cones, cylinders, and spheres ..... 8.G.C. 9 | HSG-GMD.A. 3
RIT Range: 231-234
Parallel lines 1 ..... 8.G.A. 5
Parallel lines 2 ..... 8.G.A. 5
RIT Range: > 235
Constructing a line tangent to a circle ..... HSG-C.A. 4
Surface and volume density word problems ..... HSG-MG.A. 2
Operations and Algebraic Thinking
Expressions and Equations
Standards Alignment
RIT Range: 226-230
Order of operations with negative numbers7.EE.A. 3

## Operations and Algebraic Thinking

Expressions and Equations Standards Alignment
RIT Range: < 160
Put together ..... K.OA.A. 1
Take apart ..... K.OA.A. 1
RIT Range: 161-178
Meaning of equal sign 1 ..... 1.OA.D. 7
RIT Range: 161-178
Adding three numbers ..... 1.OA.A. 2
Addition and subtraction within 10 ..... 1.OA.D. 8
Addition and subtraction word problems 1 ..... 1.OA.A. 1
Addition and subtraction word problems 2 ..... 1.OA.A. 1
Word problems with "more" and "fewer" 1 ..... 1.OA.A. 1
Word problems with "more" and "fewer" 2 ..... 1.OA.A. 1
Relate addition and subtraction ..... 1.OA.B. 4
Two-digit place value challenge ..... 1.NBT.B. 2
RIT Range: 179-191
Adding and subtracting within 1000 using a number line ..... 2.NBT.B. 7
Addition and subtraction within 100 word problems 1 ..... 2.OA.A. 1
Addition and subtraction within 100 word problems 2 2.OA.A. 1
Word problems within 100 with "more" and "fewer" 1 ..... 2.OA.A. 1
Word problems within 100 with "more" and "fewer" 2 ..... 2.OA.A. 1
Adding and subtracting using a number line 2.NBT.B. 7
Adding 10s and 100s (no regrouping) ..... 2.NBT.B. 7
Adding two- and three-digit numbers (no regrouping) ..... 2.NBT.B. 7
Comparing lengths 2.OA.A. 1
Find the missing number (addition and subtraction within 100) ..... 2.OA.A. 1
Length word problems ..... 2.OA.A. 1
Solving problems with picture graphs 1 2.OA.A. 1
Subtracting 10 s and 100 s (no regrouping) ..... 2.NBT.B. 7

## Operations and Algebraic Thinking

## Expressions and Equations <br> Standards Alignment

RIT Range: 179-191
Subtracting two- and three-digit numbers (no regrouping) 2.NBT.B. 7

RIT Range: 192-202
Addition within $1000 \quad$ 3.NBT.A. 2
Basic division 3.OA.A. 4
1-digit division 3.OA.A.4
Addition using groups of 10 and $100 \quad$ 3.NBT.A. 2
Meaning of multiplication 3.OA.A. 1
$\begin{array}{ll}\text { Properties of multiplication } & \text { 3.OA.B. } 5\end{array}$
Relate division to multiplication 3.OA.B.6
Relate division to multiplication word problems 3.OA.B.6
Solving basic multiplication and division equations 3.OA.A. 4
Subtraction within $1000 \quad$ 3.NBT.A. 2
Two-step word problems with addition, subtraction, multiplication, and 3.OA.D.8 division

RIT Range: 203-212
Multiplication and division word problems 4.OA.A.2
Multiplication without carrying 4.NBT.B.5
Multiplication with carrying 4.NBT.B.5
Multiplying 2 digits by 2 digits $\quad$ 4.NBT.B. 5
Multiplication using place value understanding 4.NBT.B.5
Multiplying 2 digits by 2 digits with area models 4.NBT.B. 5
Multiplying 4 digits by 1 digit with visual models 4.NBT.B. 5
Multi-step word problems with whole numbers 4.OA.A.3

RIT Range: 204-212
Comparing with multiplication 4.OA.A. 1

RIT Range: 213-219
Adding fractions with unlike denominators
5.NF.A. 1

## Operations and Algebraic Thinking

## Expressions and Equations <br> Standards Alignment

RIT Range: 213-219
Adding and subtracting mixed numbers with unlike denominators
Creating expressions with parentheses
5.NF.A. 1

Division by 2 digits
Evaluating expressions with parentheses
5.OA.A. 2

Multiplying and dividing decimals by powers of 10 5.NBT.A. 2
Multiplying and dividing whole numbers by powers of 10
5.NBT.A. 2

Multiplying fractions by fractions word problems 5.NF.B. 6

## Powers of ten

5.NBT.A. 2

Subtracting fractions with unlike denominators 5.NF.A.1
Translating expressions with parentheses 5.OA.A.2
Understanding moving the decimal 5.NBT.A.2

RIT Range: 220-223
Combining like terms
6.EE.A. 3

Combining like terms with distribution 6.EE.A. 3
Dependent and independent variables 6.EE.C. 9
Distributive property with variables $\quad$ 6.EE.A. 3
Writing one-step equations word problems 6.EE.B.6 | 6.eE.B.7
Equivalent expressions with distribution and combining like terms 6.EE.A.3 | 6.EE.A.4
Evaluating expressions with one variable 6.EE.A.2c
Evaluating expressions with two variables 6.EE.A.2c
Evaluating expressions with variables word problems 6.EE.A.2 | 6.EE.A.2c
Evaluating expressions with two variables with fractions and decimals 6.EE.A.2c
Order of operations $2 \quad$ 6.EE.A. 1
Expression value intuition 6.EE.A.2c
Find the mistake in solving one-step equations 6.EE.B. 7
Identifying terms, factors, and coefficients in expressions 6.EE.A.2b
Inequalities on a number line 6.EE.B.8
Writing inequalities to describe real-world situations $\quad 6 . E E . B .6 \mid 6 . E E . B .8$

## Operations and Algebraic Thinking

| Expressions and Equations | Standards Alignment |
| :---: | :---: |
| RIT Range: 220-223 |  |
| One-step equations with multiplication and division | 6.EE.B. 7 \| HSA-REI.B. 3 |
| One-step equation intuition | 6.EE.B. 7 |
| One-step equations with addition and subtraction | 6.EE.B.7 \| HSA-REI.B. 3 |
| One-step addition and subtraction equations with fractions and decimals | 6.EE.B. 7 |
| One-step multiplication and division equations with fractions and decimals | 6.EE.B. 7 |
| Order of operations | 6.EE.A.2c |
| Exponents | 6.EE.A. 1 |
| Powers of fractions | 6.EE.A. 1 |
| Testing solutions of equations using substitution | 6.EE.B. 5 |
| Testing solutions of inequalities | 6.EE.B. 8 |
| Writing expressions with variables | 6.EE.A.2 \| 6.EE.A.2a | 6.EE.A.2b |
| Writing expressions with variables and parentheses | 6.EE.A.2 \| 6.EE.A.2a | 6.EE.A.2b |
| Writing basic algebraic expressions word problems 2 | 6.EE.A. 2 \| 6.EE.A.2a |
| Writing basic expressions with variables | 6.EE.A.2 \| 6.EE.A.2a | 6.EE.A.2b |
| Writing basic algebraic expressions word problems | 6.EE.A.2 \| 6.EE.A.2a |

RIT Range: 224-227
Combining like terms with negative coefficients
Combining like terms with distribution and negative numbers
7.EE.A. 1

Combining like terms with rational coefficients 7.EE.A. 1
Discount, tax, and tip word problems 7.EE.B. 3
Equivalent expressions with negative numbers and the distributive property ${ }^{7 . E E . A .1}$
Factoring algebraic expressions using the distributive property 7.EE.A. 1
Find the mistake in solving two-step equations 7.EE.B.4a
Interpreting linear expressions 7.EE.A. 2
Interpreting and solving linear inequalities 7.EE.B.4b

| Two-step equations | 7.EE.B. 4 \| 7.EE.B.4a | HSA-REI.B.3 |
| :--- | :--- |
| Linear equation word problems | 7.EE.B. 4 \| 7.EE.B.4a |
| Manipulating basic expressions with rational coefficients | 7.EE.A. 1 |

Operations and Algebraic Thinking
Expressions and EquationsRIT Range: 224-227
Markup and commission word problems ..... 7.EE.B. 3
Multi-step rational number word problems ..... 7.EE.B. 3
One-step inequalities
Two-step inequalities7.EE.B.4b | HSA-REI.B. 3
Two-step equations with decimals and fractions ..... 7.EE.B.4a
RIT Range: 228-230
Adding and subtracting in scientific notation ..... 8.EE.A. 4
Age word problems
Equation practice with angle addition
Approximating with powers of 108.EE.C. 8 | 8.EE.C.8c
Rates and proportional relationships ..... 8.EE.B. 5
Computing in scientific notation ..... 8.EE.A. 4
Analyzing solutions to linear systems algebraically
Cube roots
Equations with square roots and cube roots
8.EE.C.8 | 8.EE.C.8a | 8.EE.C.8b | HSA-SSE.B. 3
8.EE.A. 2
Using exponent rules to evaluate expressions ..... 8.EE.A. 1
Positive and negative exponents ..... 8.EE.A. 1
Graph from a standard form equation
Analyzing solutions to linear systems graphically
Solving systems of equations graphically
Graphing proportional relationships
Graphing solutions to two-variable linear equations
Equation practice: summing integers
Equations with variables on both sides
Equation practice with midpoints
More square and cube root problems
8.EE.C. 7 | HSA-REI.D. 10
8.EE.C. 8 | 8.EE.C.8a | 8.EE.C.8b | HSA-REI.D. 10 | HSA-REI.D. 11
8.EE.C. 8 | 8.EE.C.8a | 8.EE.C.8b | HSA-REI.C. 6| HSA-REI.D. 10 | HSA-REI.D. 11
8.EE.B. 5
8.EE.C. 7 | HSA-REI.B. 3 | HSA-REI.D. 10
8.EE.C.7b
8.EE.C. 7 | 8.EE.C.7b | HSA-REI.B. 3
8.EE.C.7b
Multiplying and dividing scientific notation8.EE.A. 2

## Operations and Algebraic Thinking

| Expressions and Equations | Standards Alignment |
| :---: | :---: |
| RIT Range: 228-230 |  |
| Multi-step equations with distribution | 8.EE.C. 7 \| 8.EE.C.7b | HSA-REI.B. 3 |
| Multiplication and division with powers of ten | 8.EE.A. 3 |
| Properties of exponents | 8.EE.A. 1 |
| Roots of decimals and fractions | 8.EE.A. 2 |
| Scientific notation | 8.EE.A. 4 |
| Scientific notation intuition | 8.EE.A. 4 |
| Equation practice with segment addition | 8.EE.C.7b |
| Slope-intercept equation from two solutions | 8.EE.C.7b \| HSA-REI.D. 10 |
| Linear equations with one, zero, or infinite solutions | 8.EE.C. 7 \| 8.EE.C.7a |
| Square roots of perfect squares | 8.EE.A. 2 |
| Solving systems of two linear equations | 8.EE.C. 8 \| 8.EE.C.8b | HSA-APR.A. 1 | HSAREI.C. 6 | HSA-SSE.B. 3 |
| Solving systems of linear equations with elimination 2 | $\begin{aligned} & \text { 8.EE.C. } 8 \text { \| 8.EE.C.8b \| HSA-APR.A. } 1 \text { \| HSA- } \\ & \text { REI.C. } 6 \text { HSA-SSE.B. } 3 \end{aligned}$ |
| Solving systems of linear equations with elimination 1 | $\begin{aligned} & \text { 8.EE.C. } 8 \text { \| 8.EE.C. } 8 \mathrm{~b} \mid \text { HSA-APR.A. } 1 \text { \| HSA- } \\ & \text { REI.C. } 6 \end{aligned}$ |
| Solving systems of linear equations with substitution | 8.EE.C. 8 \| 8.EE.C.8b | HSA-REI.C. 6 | HSASSE.B. 3 |
| Equivalent systems of equations | 8.EE.C. 8 \| 8.EE.C.8b | HSA-APR.A. 1 | HSAREI.C. 5 |
| Systems of linear equations word problems | 8.EE.C. 8 \| 8.EE.C.8b | 8.EE.C.8c | HSA-APR.A. 1 | HSA-CED.A. 2 | HSA-CED.A. 3 | HSA-REI.C. 6 | HSA-SSE.B. 3 |
| Checking solutions to systems of equations | 8.EE.C. 8 |
| Equation practice with vertical angles | 8.EE.C.7b |

RIT Range: > 231
Adding and subtracting polynomials with one variable
HSA-APR.A. 1
Adding and subtracting polynomials with two variables
HSA-APR.A. 1
Checking solutions of systems of inequalities
Checking solutions of two-variable linear inequalities
HSA-CED.A. 3

Solving quadratics by completing the square 1

HSA-REI.B. 4 | HSA-REI.B.4a | HSA-SSE.B. 3 | HSA-SSE.B.3b

## Operations and Algebraic Thinking

| Expressions and Equations | Standards Alignment |
| :---: | :---: |
| RIT Range: > 231 |  |
| Solving quadratics by completing the square 2 | HSA-REI.B. 4 \| HSA-REI.B.4a | HSA-SSE.B. 3 | HSA-SSE.B.3b |
| Completing the square in quadratic expressions | HSA-SSE.B.3b |
| Compound inequalities | HSA-REI.B. 3 |
| Linear models word problems | HSA-CED.A. 2 \| HSA-CED.A. 4 |
| Analyzing solutions to linear systems algebraically | 8.EE.C. 8 \| 8.EE.C.8a | 8.EE.C.8b | HSA-SSE.B. 3 |
| Converting between slope-intercept and standard form | HSA-SSE.B. 3 |
| Equivalent forms of exponential expressions | HSA-SSE.B.3 \| HSA-SSE.B.3c |
| Equivalent forms of polynomial expressions | HSA-SSE.A. 2 |
| Expressions with unknown variables | HSA-SSE.A. 2 |
| Expressions with unknown variables 2 | HSA-SSE.A. 2 |
| Factoring simple special products | HSA-SSE.A.1a \| HSA-SSE.A. 2 | HSA-SSE.B.3a |
| Factoring differences of squares | HSA-SSE.A.1a \| HSA-SSE.A. 2 | HSA-SSE.B.3a |
| Making use of structure 2 - Factoring polynomials with special product forms | HSA-SSE.A. 2 \| HSA-SSE.B. 3 |
| Factoring quadratics with a leading coefficient of 1 | $\begin{aligned} & \text { HSA-SSE.A.1a \| HSA-SSE.A. } 2 \text { \| HSA-SSE.B. } 3 \text { \| } \\ & \text { HSA-SSE.B.3a } \end{aligned}$ |
| Factoring polynomials using quadratic methods | HSA-SSE.A.1a \| HSA-SSE.A. 2 | HSA-SSE.B. 3 |
| Factoring quadratics with a leading coefficient other than 1 | HSA-SSE.A.1a \| HSA-SSE.B. 3 |
| Making use of structure 1 - Factoring polynomials with quadratic forms | HSA-SSE.A. 2 |
| Factoring perfect squares | HSA-SSE.A.1a \| HSA-SSE.A. 2 | HSA-SSE.B.3a |
| Factoring polynomials by taking a common factor | HSA-SSE.A.1a |
| Factors and divisibility | HSA-SSE.A.1a |
| Finding special products of binomials (advanced) | HSA-APR.A. 1 |
| Multiplying monomials by polynomials | HSA-APR.A. 1 |
| Multiplying monomials by monomials | HSA-APR.A. 1 |
| Graph from slope-intercept equation | HSA-REI.D. 10 |
| Graph from a standard form equation | 8.EE.C. 7 \| HSA-REI.D. 10 |
| Analyzing solutions to linear systems graphically | 8.EE.C.8 \| 8.EE.C.8a | 8.EE.C.8b | HSAREI.D. 10 | HSA-REI.D. 11 |
| Completing solutions of two-variable linear inequalities | HSA-CED.A. 3 |

## Operations and Algebraic Thinking

## Expressions and Equations

RIT Range: > 231
Graphing inequalities and checking solutions
Solving systems of equations graphically
Completing solutions of systems of two-variable linear inequalities
Graphing systems of inequalities and checking solutions
Graphing linear functions word problems
Graphing solutions to two-variable linear equations
Finding the inequality representing the graph
Intercepts from a table
Interpreting linear formulas word problems
Interpreting graphs of linear and nonlinear functions
Interpreting linear graphs word problems
Interpreting the structure of expressions
Intersecting functions
Finding and interpreting key features of quadratics
One-step equations with multiplication and division
Two-step equations
Equations with variables on both sides
Multi-step linear inequalities
Manipulating formulas
Two-variable linear inequalities word problems
Systems of linear inequalities word problems
Multiplying binomials by binomials
Finding special products of binomials (basic)
Multiplying binomials by polynomials
Multi-step equations with distribution

## Nested fractions

One-step equations with addition and subtraction
One-step inequalities

## Standards Alignment

HSA-CED.A. 3 | HSA-REI.D. 12
8.EE.C. 8 | 8.EE.C.8a | 8.EE.C.8b | HSA-REI.C. 6 | HSA-REI.D. 10 | HSA-REI.D. 11

HSA-CED.A. 3
HSA-CED.A. 3 | HSA-REI.D. 12

HSA-REI.D. 10
8.EE.C. 7 | HSA-REI.B. 3 | HSA-REI.D. 10

HSA-CED.A. 3
HSA-REI.D. 10
HSA-SSE.A. 1 | HSA-SSE.A.1a
HSA-REI.D. 10
HSA-REI.D. 10
HSA-SSE.A. 1 | HSA-SSE.A.1a | HSA-SSE.A.1b
HSA-REI.D. 11
HSA-SSE.B. 3 | HSA-SSE.B.3a | HSA-SSE.B.3b
6.EE.B. 7 | HSA-REI.B. 3
7.EE.B. 4 | 7.EE.B.4a | HSA-REI.B. 3
8.EE.C. 7 | 8.EE.C.7b | HSA-REI.B. 3

HSA-REI.B. 3
HSA-CED.A. 4
HSA-CED.A. 3 | HSA-SSE.A. 1
HSA-CED.A. 3 | HSA-SSE.A. 1
HSA-APR.A. 1
HSA-APR.A. 1
HSA-APR.A. 1
8.EE.C. 7 | 8.EE.C.7b | HSA-REI.B. 3

HSA-SSE.A. 2
6.EE.B. 7 | HSA-REI.B. 3
7.EE.B.4b | HSA-REI.B. 3

## Operations and Algebraic Thinking

| Expressions and Equations | Standards Alignment |
| :---: | :---: |
| RIT Range: > 231 |  |
| Checking solutions to two-variable linear equations | HSA-REI.D. 10 |
| Using the quadratic formula | HSA-REI.B. 4 \| HSA-REI.B.4b |
| Quadratic formula with complex solutions | HSA-REI.B. 4 \| HSA-REI.B.4b | HSN-CN.C. 7 |
| Rewriting and interpreting exponential functions | HSA-SSE.B. 3 \| HSA-SSE.B.3c |
| Key features of quadratic functions | HSA-SSE.B. 3 \| HSA-SSE.B.3a | HSA-SSE.B.3b |
| Slope from a graph | HSA-REI.D. 10 |
| Slope from an equation in slope-intercept form | HSA-REI.D. 10 |
| Slope from an equation in standard form | HSA-REI.D. 10 |
| Slope from two solutions | HSA-REI.D. 10 |
| Slope-intercept equation from a graph | HSA-REI.D. 10 |
| Slope-intercept equation from two solutions | 8.EE.C.7b \| HSA-REI.D. 10 |
| Solutions to quadratic equations | HSA-REI.B. 4 \| HSA-REI.B.4b |
| Solving equations in terms of a variable | HSA-CED.A. 4 |
| Solving quadratics by factoring | HSA-REI.B. 4 \| HSA-REI.B.4b | HSA-SSE.B. 3 | HSA-SSE.B.3a |
| Solving quadratics by factoring 2 | $\begin{aligned} & \text { HSA-REI.B. } 4 \text { \| HSA-REI.B.4b \| HSA-SSE.B. } 3 \text { \| } \\ & \text { HSA-SSE.B.3a } \end{aligned}$ |
| Solving quadratics by taking the square root | HSA-REI.B.4 \| HSA-REI.B.4b |
| Structure in expressions 1 | HSA-SSE.A. 1 \| HSA-SSE.A.1a | HSA-SSE.A.1b |
| Solving systems of two linear equations | $\begin{aligned} & \text { 8.EE.C. } 8 \text { \| 8.EE.C.8b \| HSA-APR.A. } 1 \text { \| HSA- } \\ & \text { REI.C. } 6 \text { \| HSA-SSE.B. } 3 \end{aligned}$ |
| Solving systems of linear equations with elimination 2 | ```8.EE.C.8 \| 8.EE.C.8b | HSA-APR.A.1 | HSA- REI.C.6 | HSA-SSE.B. }``` |
| Solving systems of linear equations with elimination 1 | 8.EE.C. 8 \| 8.EE.C. $8 \mathrm{~b} \mid$ HSA-APR.A. 1 \| HSAREI.C. 6 |
| Solving systems of linear equations with substitution | 8.EE.C.8 \| 8.EE.C.8b | HSA-REI.C. 6 | HSASSE.B. 3 |
| Systems of nonlinear equations | HSA-REI.C. 7 \| HSA-REI.D. 11 |
| Equivalent systems of equations | 8.EE.C. 8 \| 8.EE.C.8b | HSA-APR.A. 1 | HSAREI.C. 5 |
| Systems of linear equations word problems | 8.EE.C. 8 \| 8.EE.C.8b | 8.EE.C.8c | HSA-APR.A. 1 | HSA-CED.A. 2 | HSA-CED.A. 3 | HSA-REI.C. 6 | HSA-SSE.B. 3 |
| Understanding the process for solving quadratic equations | HSA-REI.A. 1 |

## Operations and Algebraic Thinking

## Expressions and Equations <br> Standards Alignment

## RIT Range: > 231

Understanding the process for solving linear equations
Vertex of a parabola
Generating input-output pairs of a function
HSA-REI.A. 1

Writing the equation of a line in any form
HSA-SSE.B. 3 | HSA-SSE.B.3b
HSA-REI.D. 10
HSA-REI.D. 10

## Operations and Algebraic Thinking

## Use Functions to Model Relationships

RIT Range: 213-219
Coordinate plane word problems in the first quadrant
Graphing points

RIT Range: 228-230

## Comparing linear functions

Comparing linear functions word problems
Constructing linear functions word problems

## Domain and range from graph

Domain of algebraic functions
Interpreting function notation word problems
Evaluating functions
Evaluating function expressions
Matching inputs to function outputs
Writing function rules from equations
Graph from slope-intercept equation
Graph from a standard form equation
Graphing solutions to two-variable linear equations
Increasing and decreasing intervals
Intercepts from a table
8.F.A. $2 \mid$ HSF-IF.C. 9
8.F.A. 2 | HSF-IF.C. 9 | HSF-LE.B. 5
8.F.B. 4 | HSF-BF.A. 1 | HSF-BF.A.1a | HSFLE.A. 2 | HSF-LE.B. 5
8.F.A. 1 | HSF-IF.A. 1 | HSF-IF.B. 5
8.F.A. 1 | HSF-IF.A. 1 | HSF-IF.B. 5
8.F.A. 1 | HSF-IF.A. 1 | HSF-IF.A. 2
8.F.A. 1 | HSF-IF.A. 1 | HSF-IF.A. 2
8.F.A. $1 \mid$ HSF-IF.A. 1 | HSF-IF.A. 2
8.F.A. 1 | HSF-IF.A. 1 | HSF-IF.A. 2
8.F.A. 1 | HSF-IF.A. 1 | HSF-IF.A. 2 | HSF-LE.A. 2
8.F.A. 1 | 8.F.A. 3 | HSF-IF.C.7a
8.F.A. 1 | HSF-IF.C.7a

Interpreting graphs word problems
Domain of modeling functions
8.F.A. 1 | HSF-IF.C.7a
8.F.B. 5 | HSF-IF.B. 4

## Operations and Algebraic Thinking

| Use Functions to Model Relationships | Standards Alignment |
| :---: | :---: |
| RIT Range: 228-230 |  |
| Interpreting linear formulas word problems | 8.F.A. 3 \| 8.F.B. 4 | HSF-LE.B. 5 |
| Interpreting graphs of linear and nonlinear functions | 8.F.B. 5 |
| Intercepts from a graph | 8.F.A. 1 |
| Linear and nonlinear functions | 8.F.A. 3 |
| Checking solutions to two-variable linear equations | 8.F.A. 1 |
| Positive and negative intervals | 8.F.B. 5 \| HSF-IF.B. 4 |
| Recognizing functions from graphs | 8.F.A. 1 \| HSF-IF.A. 1 |
| Recognizing maxima and minima | 8.F.B. 5 \| HSF-IF.B. 4 |
| Recognizing functions from tables | 8.F.A. 1 \| HSF-IF.A. 1 |
| Slope from a graph | 8.F.B. 4 \| HSF-IF.C.7a | HSF-LE.A. 2 |
| Slope from an equation in slope-intercept form | 8.F.B. 4 |
| Slope from an equation in standard form | 8.F.B. 4 \| HSF-IF.C.7a | HSF-IF.C.8b | HSF-LE.A. 2 |
| Slope from two solutions | 8.F.B. 4 \| HSF-IF.C.7a | HSF-LE.A. 2 |
| Slope-intercept equation from a graph | 8.F.A. 1 \| 8.F.A. 3 | 8.F.B. 4 | HSF-LE.A. 2 |
| Slope-intercept equation from two solutions | 8.F.A. 1 \| 8.F.A. 3 | 8.F.B. 4 | HSF-LE.A. 2 |
| Intercepts from a linear equation | 8.F.A. 3 \| HSF-IF.C.7a |
| Generating input-output pairs of a function | 8.F.A. 1 \| HSF-IF.A. 1 | HSF-IF.A. 2 |
| Writing the equation of a line in any form | 8.F.A. 1 \| 8.F.A. 3 | 8.F.B. 4 | HSF-IF.C.7a | HSFLE.A. 2 |

RIT Range: > 231

| Algebraically finding inverses | HSF-BF.B.4a |
| :---: | :---: |
| Amplitude of trigonometric functions | HSF-IF.C.7e |
| Evaluating arithmetic sequences 1 | HSF-IF.A. 3 |
| Evaluating arithmetic sequences 2 | HSF-IF.A. 3 |
| Average rate of change word problems | HSF-IF.B. 6 |
| Finding average rate of change | HSF-IF.B. 6 |
| Modeling with combined functions | HSF-BF.A.1b |
| Comparing linear functions | 8.F.A. 2 \| HSF-IF.C. 9 |
| Comparing linear functions word problems | 8.F.A. 2 \| HSF-IF.C. 9 | HSF-LE.B. 5 |

## Operations and Algebraic Thinking

| Use Functions to Model Relationships | Standards Alignment |
| :---: | :---: |
| RIT Range: > 231 |  |
| Comparing features of functions | HSF-IF.C. 9 |
| Comparing growth rates of exponentials and polynomials | HSF-LE.A. 3 |
| Linear models word problems | HSF-BF.A. 1 \| HSF-BF.A.1a | HSF-LE.A. 2 | HSFLE.B. 5 |
| Constructing linear and exponential functions | HSF-LE.A. 2 |
| Constructing linear functions word problems | 8.F.B. 4 \| HSF-BF.A. 1 | HSF-BF.A.1a | HSFLE.A. 2 | HSF-LE.B. 5 |
| Point-slope form | HSF-IF.C.7a \| HSF-LE.A. 2 | HSF-LE.B. 5 |
| Converting between slope-intercept and standard form | HSF-IF.C. 8 |
| Domain and range from graph | 8.F.A. 1 \| HSF-IF.A. 1 | HSF-IF.B. 5 |
| Domain of a function | HSF-IF.A. 1 \| HSF-IF.B. 5 |
| Domain and range of piecewise functions | HSF-IF.A. 1 \| HSF-IF.B. 5 |
| Domain of algebraic functions | 8.F.A. 1 \| HSF-IF.A. 1 | HSF-IF.B. 5 |
| Equivalent forms of exponential expressions | HSF-IF.C. 8 \| HSF-IF.C. 8 b |
| Evaluating piecewise functions | HSF-IF.A. 1 \| HSF-IF.A. 2 |
| Evaluating sequences in recursive form | HSF-IF.A. 1 \| HSF-IF.A. 2 | HSF-IF.A. 3 |
| Even and odd functions | HSF-BF.B. 3 |
| Explicit formulas for arithmetic sequences | HSF-BF.A. 2 \| HSF-IF.A. 1 | HSF-IF.A. 3 |
| Interpreting function notation word problems | 8.F.A. 1 \| HSF-IF.A. 1 | HSF-IF.A. 2 |
| Evaluating functions | 8.F.A. 1 \| HSF-IF.A. 1 | HSF-IF.A. 2 |
| Evaluating function expressions | 8.F.A. 1 \| HSF-IF.A. 1 | HSF-IF.A. 2 |
| Evaluating composite functions | HSF-BF.A. 1 |
| Matching inputs to function outputs | 8.F.A. 1 \| HSF-IF.A. 1 | HSF-IF.A. 2 |
| Writing function rules from equations | 8.F.A. 1 \| HSF-IF.A. 1 | HSF-IF.A. 2 | HSF-LE.A. 2 |
| Evaluating geometric sequences 1 | HSF-IF.A. 3 |
| Evaluating geometric sequences 2 | HSF-IF.A. 3 |
| Graph from slope-intercept equation | 8.F.A. 1 \| 8.F.A. 3 | HSF-IF.C.7a |
| Graph from a standard form equation | 8.F.A. 1 \| HSF-IF.C.7a |
| Graphing parabolas in standard form | HSF-IF.C.7a |
| Graphing parabolas in vertex form | HSF-IF.C.7a |

Comparing features of functionsComparing growth rates of exponentials and polynomialsLinear models word problems
Constructing linear and exponential functions
Constructing linear functions word problems
Point-slope form
Converting between slope-intercept and standard form
ain and range from graph
Domain and range of piecewise functions
Domain of algebraic functions
Evaluating piecewise functions
Evaluating sequences in recursive form
Explicit formulas for arithmetic sequences
nerpreting function notation word problems
Evaluating function expressions
Evaluating composite functions
Matching inputs to function outputsEvaluating geometric sequences 1
Evaluating geometric sequences 2Graph from a standard form equation
Graphing parabolas in standard form
HSF-IF.C.7a
Graphing parabolas in vertex form

## Operations and Algebraic Thinking

| Use Functions to Model Relationships | Standards Alignment |
| :---: | :---: |
| RIT Range: > 231 |  |
| Graphing parabolas in all forms | HSF-IF.C.7a |
| Graphing linear functions word problems | HSF-IF.C.7a |
| Graphs of piecewise nonlinear functions | HSF-IF.C.7b |
| Graphing solutions to two-variable linear equations | 8.F.A. 1 \| HSF-IF.C.7a |
| Graphs of absolute value functions | HSF-IF.C.7b |
| Graphs of exponentials and logarithms | HSF-IF.C.7e |
| Graphs of square root functions | HSF-IF.C.7b |
| Graphs of trigonometric functions | HSF-IF.C.7e |
| Increasing and decreasing intervals | 8.F.B. 5 \| HSF-IF.B. 4 |
| Interpreting graphs word problems | 8.F.B. 5 \| HSF-IF.B. 4 |
| Domain of modeling functions | 8.F.A. 1 \| HSF-IF.A. 1 | HSF-IF.B. 5 |
| Interpreting linear formulas word problems | 8.F.A. 3 \| 8.F.B. 4 | HSF-LE.B. 5 |
| Interpreting linear graphs word problems | HSF-IF.C.7a \| HSF-LE.B. 5 |
| Interpreting linear tables word problems | HSF-IF.B. 4 \| HSF-LE.A. 2 | HSF-LE.B. 5 |
| Inverses of linear functions | HSF-BF.B.4a |
| Finding and interpreting key features of quadratics | HSF-IF.C. 8 \| HSF-IF.C.8a |
| Slope intuition | HSF-IF.C.7a |
| Midline of trigonometric functions | HSF-IF.C.7e |
| Modeling with combined functions | HSF-BF.A.1b |
| Modeling with composite functions | HSF-BF.A. 1 |
| Modeling with exponential functions | HSF-LE.B. 5 |
| Period of trigonometric functions | HSF-IF.C.7e |
| Graphs of piecewise linear functions | HSF-IF.A. 1 \| HSF-IF.C.7b |
| Positive and negative intervals | 8.F.B. 5 \| HSF-IF.B. 4 |
| Range of a function | HSF-IF.A. 1 |
| Recognizing features of functions | HSF-IF.B. 4 |
| Recognizing functions from graphs | 8.F.A. 1 \| HSF-IF.A. 1 |
| Recognizing maxima and minima | 8.F.B. 5 \| HSF-IF.B. 4 |
| Recognizing functions from tables | 8.F.A. 1 \| HSF-IF.A. 1 |

## Operations and Algebraic Thinking

Use Functions to Model Relationships
Standards Alignment
RIT Range: > 231
Modeling with sequences
Recursive formulas for arithmetic sequences
Recursive formulas for geometric sequences
Rewriting and interpreting exponential functions
Key features of quadratic functions
Explicit formulas for geometric sequences
Shifting and reflecting functions
Slope from a graph
Slope from an equation in standard form
Slope from two solutions
Slope-intercept equation from a graph
Slope-intercept equation from two solutions
Intercepts from a linear equation
Understanding linear and exponential models
Generating input-output pairs of a function
Writing the equation of a line in any form
Statistics and Probability
Interpreting Categorical and Quantitative Data
RIT Range: 161-178
Solving problems with bar graphs 11.MD.C. 4
RIT Range: 179-191
Making line plots, bar graphs, and picture graphs ..... 2.MD.D. 9
Solving problems with bar graphs 2 ..... 2.MD.D. 10
Solving problems with line plots 1 ..... 2.MD.D. 9
Solving problems with picture graphs 1 ..... 2.MD.D. 10
Statistics and Probability
Interpreting Categorical and Quantitative Data Standards Alignment
RIT Range: 192-203
Creating line plots ..... 3.MD.B. 4
RIT Range: 192-202
Creating bar charts ..... 3.MD.B. 3
Creating picture and bar graphs 2 ..... 3.MD.B. 3
Reading bar charts 1 ..... 3.MD.B. 3
Reading bar charts 2 ..... 3.MD.B. 3
Reading pictographs 1 ..... 3.MD.B. 3
Reading pictographs 2 ..... 3.MD.B. 3
Solving problems with bar graphs 3 ..... 3.MD.B. 3
Solving problems with picture graphs 2 ..... 3.MD.B. 3
RIT Range: 203-212
Interpreting dot plots with fraction addition and subtraction ..... 4.MD.B. 4
RIT Range: 213-219
Interpreting dot plots with fraction operations ..... 5.MD.B. 2
RIT Range: 220-223
Reading box plots
Reading dot plots and frequency tables
6.SP.A. 2 | 6.SP.A. 3 | 6.SP.B. 4 | 6.SP.B. 5
Creating box plots 2 ..... 6.SP.B. 4
Calculating the interquartile range (IQR) 6.SP.B.5c | 6.SP.B.5d
Calculating the mean
Calculating the mean absolute deviation (MAD) ..... 6.SP.B.5c | 6.SP.B.5d6.SP.B.5c
Calculating the mean from data displays
Calculating the median ..... 6.SP.B.5c
Calculating the median from data displays ..... 6.SP.B.5c
Clusters, gaps, peaks, and outliers ..... 6.SP.A. 2
Creating box plots 1 ..... 6.SP.B. 4

## Statistics and Probability

Interpreting Categorical and Quantitative Data Standards Alignment
RIT Range: 220-223
Creating dot plots ..... 6.SP.B. 4
Creating frequency tables ..... 6.SP.B. 4
Creating histograms ..... 6.SP.B. 4
Exploring mean and median ..... 6.SP.B.5d
Find a missing value given the mean ..... 6.SP.B.5c
Interpreting quartiles
Data set warm-up6.SP.B.5a
Mean, median, and mode ..... 6.SP.B.5c
Median and range puzzlers ..... 6.SP.B.5c
Reading bar charts 3 ..... 6.SP.B. 5
Reading histograms ..... 6.SP.B. 4
Shape of distributions ..... 6.SP.A. 2
Statistical questions ..... 6.SP.A. 1
RIT Range: 224-227
Comparing populations ..... 7.SP.B. 3 | 7.SP.B. 4
RIT Range: 226-230
Average word problems ..... 6.SP.B.5.c
RIT Range: 228-230
Constructing scatter plots ..... 8.SP.A. 1
Interpreting two-way tables ..... 8.SP.A. 4
Interpreting scatter plots ..... 8.SP.A. 1
Linear models of bivariate data 8.SP.A. 3 | HSS-ID.B. 6 | HSS-ID.B.6a | HSS-
ID.B.6c | HSS-ID.C. 7
Estimating the line of best fit
Two-way frequency tables
8.SP.A. 2 | HSS-ID.B. 6 | HSS-ID.B.6c
Two-way relative frequency tables ..... 8.SP.A. 48.SP.A. 4
Statistics and Probability
Interpreting Categorical and Quantitative Data
Standards Alignment
RIT Range: > 231
Exploring standard deviation
Fitting quadratic and exponential functions to scatter plots
Interpreting and comparing data distributions
Linear models of bivariate data
Estimating the line of best fit
Standard deviation of a population
Trends in categorical data HSS-ID.B. 5HSS-ID.A. 3
HSS-ID.B. 6 | HSS-ID.B.6a | HSS-ID.B.6c
HSS-ID.A. 1 | HSS-ID.A. 2 | HSS-ID.A. 3
8.SP.A. 3 | HSS-ID.B. 6 | HSS-ID.B.6a | HSS-ID.B.6c | HSS-ID.C. 7
8.SP.A. 2 | HSS-ID.B. 6 | HSS-ID.B.6c
HSS-ID.A. 2
Types of statistical studies ..... HSS-ID.C. 9
Statistics and Probability
Using Sampling and Probability to Make Decisions
Standards Alignment
RIT Range: 224-227
Probabilities of compound events
Probability of rolling dice
Experimental probability7.SP.C.8a | 7.SP.C.8b
Making inferences from random samples ..... 7.SP.A. 1
Simple probability
Probability models
7.SP.C. 7 | 7.SP.C.7a
Sample spaces for compound events ..... 7.SP.C.8b7.SP.C. 7 | 7.SP.C.7b
Comparing probabilities ..... 7.SP.C. 5Making predictions with probability
Valid claims
7.SP.C.8b
7.SP.C. 6
7.SP.C. 7 | 7.SP.C.7a
7.SP.A. 1
RIT Range: > 231
Adding probabilitiesHSS-CP.B. 7
Basic set notation ..... HSS-CP.A. 1
Dependent probability ..... HSS-CP.B. 6
Describing subsets of sample spaces ..... HSS-CP.A. 1
Identifying dependent and independent events ..... HSS-CP.A. 2 | HSS-CP.A. 3

## Statistics and Probability

## Using Sampling and Probability to Make Decisions <br> RIT Range: > 231 <br> The Real and Complex Number Systems

 Standards AlignmentTrends in categorical data ..... HSS-CP.A. 4 | HSS-CP.A. 5 | HSS-CP.B. 6
Extend and Use Properties Standards Alignment
RIT Range: < 160
Comparing numbers of objects ..... K.CC.C. 6
Teen numbers ..... K.NBT.A. 1
RIT Range: 161-178
Comparing two-digit numbers ..... 1.NBT.B. 3
Groups of ten objects 1.NBT.B.2 | 1.NBT.B.2c
Halves and fourths ..... 1.G.A. 3
Two-digit place value challenge ..... 1.NBT.B. 2
RIT Range: 179-191
Comparing three-digit numbers ..... 2.NBT.A. 4
Equal parts of circles and rectangles ..... 2.G.A. 3
Hundreds, tens, and onesThree-digit place value challenge2.NBT.A. 3
RIT Range: 192-203
Fractions on the number line 1 ..... 3.NF.A. 2
Meaning of division ..... 3.OA.A. 2
Meaning of multiplication ..... 3.OA.A. 1
Properties of multiplication 1 ..... 3.OA.B. 5
Rounding to the nearest ten or hundred ..... 3.NBT.A. 1
RIT Range: 192-202
Comparing fractions with the same numerator or denominator ..... 3.NF.A.3 | 3.NF.A.3d
Comparing fractions with the same denominator 3.NF.A.3 | 3.NF.A.3d

## The Real and Complex Number Systems

| Extend and Use Properties | Standards Alignment |
| :---: | :---: |
| RIT Range: 192-202 |  |
| Comparing fractions with the same numerator | 3.NF.A.3 \| 3.NF.A.3d |
| Visually comparing fractions 1 | 3.NF.A.3 \| 3.NF.A.3d |
| Identifying unit fractions | 3.G.A. 2 \| 3.NF.A. 1 |
| Equivalent fractions on the number line | 3.NF.A.3 \| 3.NF.A.3b |
| Equivalent fraction models | 3.NF.A.3 \| 3.NF.A.3b |
| Finding 1 on the number line | 3.NF.A.2a \| 3.NF.A.2b | 3.NF.A.3c |
| Unit fractions on the number line | 3.NF.A.2a \| 3.NF.A.2b |
| Recognizing fractions 2 | 3.NF.A. 1 |
| Comparing fractions of different wholes | 3.NF.A.3d |
| Identifying numerators and denominators | 3.NF.A. 1 |
| Recognizing fractions 1 | 3.NF.A. 1 |
| That's not fair! | 3.G.A. 2 \| 3.NF.A. 1 |
| Writing fractions as whole numbers | 3.NF.A.3c |

RIT Range: 203-212
Adding fractions with 10 and 100 as denominators
4.NF.C. 5

Comparing decimals and fractions
4.NF.C. 7

Comparing fractions with different numerators and denominators 4.NF.A. 2
Comparing fractions and mixed numbers 4.NF.A. 2
Comparing decimals visually 4.NF.C. 7
Decompose fractions with denominators of 100 4.NF.C. 5
Decomposing fractions 4.NF.B.3b
Equivalent fractions and different wholes 4.NF.A. 2
Equivalent fractions 4.NF.A. 1
Equivalent fractions with denominators of 10 and 100 4.NF.C. 5
Equivalent fractions with denominators of 10 and 100 intuition 4.NF.C. 5
Ordering fractions 4.NF.A. 2
Place value 4.NBT.A. 2
Multiplying Fractions and Whole Numbers: Equivalent Expressions 4.NF.B.4a

## The Real and Complex Number Systems

Extend and Use Properties Standards Alignment
RIT Range: 203-212
Understanding place value ..... 4.NBT.A. 1
Understanding whole number representations ..... 4.NBT.A. 2
Equivalent fractions introduction ..... 4.NF.A. 1
Visually comparing fractions with unlike denominators ..... 4.NF.A. 2
RIT Range: 204-212
Comparing decimals 1 ..... 4.NF.C. 7
Composite numbers 4.OA.B. 4
Converting decimals to fractions 1 ..... 4.NF.C. 6
Fractions as division by 10 or 100 ..... 4.NF.C. 6
Decimals on the number line 1 ..... 4.NF.C. 6
Decimals on the number line 2 ..... 4.NF.C. 6
Fractions as division by a multiple of 10 ..... 4.NF.C. 6
Fractions cut and copy 1 ..... 4.NF.A. 1
Prime numbers ..... 4.OA.B. 4
RIT Range: 213-219
Comparing decimals 25.NBT.A.3b
Comparing decimal place value ..... 5.NBT.A. 1
Coordinate plane word problems in the first quadrant ..... 5.G.A. 2
Graphing points
Multiplying and dividing decimals by powers of 105.NBT.A. 2
Multiplying and dividing whole numbers by powers of 10 ..... 5.NBT.A. 2
Ordering decimals ..... 5.NBT.A.3b
Powers of ten ..... 5.NBT.A. 2
Regrouping decimals ..... 5.NBT.A. 1
Regrouping whole numbers ..... 5.NBT.A. 1
Money and decimal place value intuition ..... 5.NBT.A. 3
Understanding moving the decimal ..... 5.NBT.A. 2
Understanding fractions as division ..... 5.NF.B. 3

## The Real and Complex Number Systems

| Extend and Use Properties | Standards Alignment |
| :---: | :---: |
| RIT Range: 213-219 |  |
| Understanding fractions as division: word problems | 5.NF.B. 3 |
| Writing and interpreting decimals | 5.NBT.A.3a |
| RIT Range: 220-223 |  |
| Finding absolute values | 6.NS.C.7c |
| Interpreting absolute value | 6.NS.C.7 \| 6.NS.C.7c | 6.NS.C.7d |
| Comparing absolute values | 6.NS.C. 7 \| 6.NS.C.7c |
| Comparing absolute values 2 | 6.NS.C. 7 \| 6.NS.C.7c |
| Coordinate plane problems in all four quadrants | 6.NS.C.6 \| 6.NS.C. 8 |
| Decimals on the number line 3 | 6.NS.C. 6 \| 6.NS.C.6c |
| Rational numbers on the number line | 6.NS.C. 6 \| 6.NS.C.6c |
| Graphing points and naming quadrants | 6.NS.C.6 \| 6.NS.C.6b | 6.NS.C.6c |
| Points on the coordinate plane | 6.NS.C.6 \| 6.NS.C.6c |
| Interpreting negative numbers | 6.NS.C. 5 |
| Negative numbers on the number line | 6.NS.C. 6 |
| Negative numbers on the number line without reference to zero | 6.NS.C.6 \| 6.NS.C.6c |
| Number opposites | 6.NS.C.6 \| 6.NS.C.6a |
| Number opposites 2 | 6.NS.C.6 \| 6.NS.C.6a |
| Ordering negative numbers | 6.NS.C.7 \| 6.NS.C.7b |
| Ordering rational numbers | 6.NS.C.7 \| 6.NS.C.7b |
| Reflecting points on the coordinate plane | 6.NS.C.6 \| 6.NS.C.6b | 6.NS.C. 8 |
| Distance between points on the coordinate plane | 6.NS.C.6 \| 6.NS.C.6b | 6.NS.C. 8 |
| Comparing positive and negative numbers on the number line | 6.NS.C. 7 \| 6.NS.C.7a |
| Writing numerical inequalities | 6.NS.C. 7 \| 6.NS.C.7b |

RIT Range: 228-230
Comparing irrational numbers with a calculator ..... 8.NS.A. 2
Comparing irrational numbers ..... 8.NS.A. 2
Converting 1-digit repeating decimals to fractions ..... 8.NS.A. 1
Converting multi-digit repeating decimals to fractions ..... 8.NS.A. 1

## The Real and Complex Number Systems

Extend and Use Properties Standards Alignment
RIT Range: 228-230
Recognizing rational and irrational numbers ..... 8.NS.A. 1
Approximating square roots ..... 8.NS.A. 2
Writing fractions as repeating decimals ..... 8.NS.A. 1
RIT Range: > 231
Adding and subtracting radicals ..... HSN-RN.A. 2
Fractional exponents ..... HSN-RN.A. 2
Fractional exponents 2 ..... HSN-RN.A. 2
Manipulating fractional exponents ..... HSN-RN.A. 2
Simplifying square roots 2 HSN-RN.A. 2
Simplifying expressions with exponents ..... HSN-RN.A. 2
RIT Range: 231-234
Converting decimals to fractions 2 ..... 8.NS.A. 1
Properties of exponents ..... 8.EE.A. 1
Scientific notation intuition ..... 8.EE.A. 4
The Real and Complex Number Systems
Perform Operations
Standards Alignment
RIT Range: < 160
Addition word problems within 10Subtraction word problems within 10K.OA.A. 2
RIT Range: 161-178
Addition and subtraction within 10 ..... 1.OA.D. 8
RIT Range: 161-178
Adding 1s or 10s (no regrouping) ..... 1.NBT.C. 4
Adding three numbers ..... 1.OA.A. 2
Addition within 20 ..... 1.OA.C. 6

## The Real and Complex Number Systems

## Perform Operations <br> Standards Alignment

RIT Range: 161-178
Addition and subtraction word problems 1
1.OA.A. 1

Addition and subtraction word problems 2
Word problems with "more" and "fewer" 1
Word problems with "more" and "fewer" 2
1.OA.A. 1

## Adding 1 or 10

1.NBT.C. 4
Adding two-digit numbers (no regrouping) ..... 1.NBT.C. 4
Breaking apart two-digit addition problems ..... 1.NBT.C. 4
Regrouping: two-digit number plus one-digit number ..... 1.NBT.C. 4
RIT Range: 179-191
Adding and subtracting within 1000 using a number line
Addition within 100
Addition and subtraction within 100 word problems 1
Addition and subtraction within 100 word problems 2
Word problems within 100 with "more" and "fewer" 1
Word problems within 100 with "more" and "fewer" 2
Adding and subtracting using a number lineAdding 10s and 100s (no regrouping)
Adding two- and three-digit numbers (no regrouping)
Breaking apart three-digit addition problems2.NBT.B. 7
Comparing lengths ..... 2.OA.A. 1
Counting money (U.S.) ..... 2.MD.C. 8 | 2.NBT.A. 2Find the missing number (addition and subtraction within 100)
Length word problems
2.OA.A. 1Adding two-digit numbers by making tens2.NBT.B. 5
Adding two-digit numbers by making tens 2 ..... 2.NBT.B. 5
Regrouping: two-digit number minus one-digit number ..... 2.NBT.A. 4
Select strategies for adding within 100 ..... 2.NBT.B. 7
Skip-counting by 100s ..... 2.NBT.A. 2

## The Real and Complex Number Systems

## Perform Operations <br> Standards Alignment

RIT Range: 179-191
Skip-counting by 10s 2.NBT.A.2
Skip-counting by 5s
2.NBT.A. 2

Solving problems with picture graphs $1 \quad$ 2.OA.A. 1
Subtracting 1s or 10 s (no regrouping) 2.NBT.B. 5
Subtraction within $20 \quad$ 2.NBT.B. 5
Subtraction within $100 \quad$ 2.NBT.B. 5
Subtracting 10s and 100s (no regrouping) 2.NBT.B. 7
Subtracting two- and three-digit numbers (no regrouping) 2.NBT.B. 7
Subtracting 1 or $10 \quad$ 2.NBT.B. 5
Subtracting two-digit numbers (no regrouping) 2.NBT.B. 5
$\begin{array}{ll}\text { Telling time without labels } & \text { 2.MD.C. } 7\end{array}$
$\begin{array}{ll}\text { Telling time with a labeled clock } & \text { 2.MD.C. } 7\end{array}$

RIT Range: 192-203
Basic division 3.OA.A. 4
1-digit division 3.OA.A. 4
Multiplying 1-digit numbers 3.OA.A.4

RIT Range: 192-202
Addition within 1000
3.NBT.A. 2 | 4.NBT.B. 4

Addition using groups of 10 and 100
Meaning of division
3.NBT.A. 2

Meaning of multiplication 3.OA.A. 1
Arithmetic word problems with mass 3.MD.A. 2
Multiply by tens 3.NBT.A. 3
Multiply by tens word problems 3.NBT.A.3
Whole numbers on the number line 3.OA.C. 7
$\begin{array}{ll}\text { Properties of multiplication } & \text { 3.OA.B. } 5\end{array}$
Relate division to multiplication 3.OA.B. 6
Relate division to multiplication word problems 3.OA.B. 6
The Real and Complex Number Systems
Perform Operations Standards Alignment
RIT Range: 192-202
Rounding to the nearest ten or hundred ..... 3.NBT.A. 1
Subtraction within 1000 ..... 3.NBT.A. 2 | 4.NBT.B. 4
Telling time word problems ..... 3.MD.A. 1
Telling time word problems with the number line ..... 3.MD.A. 1
Two-step word problems with addition, subtraction, multiplication, and ..... 3.OA.D. 8 division
Arithmetic word problems with volume ..... 3.MD.A. 2
RIT Range: 203-212
Adding fractions with 10 and 100 as denominators ..... 4.NF.C. 5
Adding and subtracting mixed numbers with like denominators 4.NF.B.3c
Adding and subtracting fractions with like denominators word problems ..... 4.NF.B.3d
Adding and subtracting mixed numbers withåêlike denominators 2 ..... 4.N. B. 3 c
Addition within 1000
Multiplication and division word problems 4.OA.A. 23.NBT.A. 2 | 4.NBT.B. 4
Comparing with multiplication ..... 4.OA.A. 1
Composite numbers ..... 4.OA.B. 4
Rewriting decimals as fractions ..... 4.NF.C. 6
Rewriting fractions as decimals ..... 4.NF.C. 6
Decimal intuition with grids ..... 4.NF.C. 6
Decimals in words ..... 4.NF.C. 6
Decompose fractions with denominators of 100 ..... 4.NF.C. 5
Divisibility intuition ..... 4.OA.B. 4
Multi-digit division without remainders ..... 4.NBT.B. 6
Division with remainders ..... 4.NBT.B. 6
Division using place value understanding ..... 4.NBT.B. 6
Equivalent fractions ..... 4.NF.A. 1
Equivalent fractions with denominators of 10 and 100 ..... 4.NF.C. 5
Equivalent fractions with denominators of 10 and 100 intuition ..... 4.NF.C. 5
Factor pairs ..... 4.OA.B. 4

## The Real and Complex Number Systems

## Perform Operations

## RIT Range: 203-212

## Adding and subtracting fractions of pizzas, pies, and cakes <br> 4.NF.B.3d

## Fraction-decimal intuition 4.NF.C. 6

Identifying factors and multiples ..... 4.OA.B. 4
Converting money word problems ..... 4.MD.A. 2
Time word problems ..... 4.MD.A. 2
Multi-digit division with visual models ..... 4.NBT.B. 6
Multiplication without carrying ..... 4.NBT.B. 5
Multiplication with carrying ..... 4.NBT.B. 5
Multiplying 2 digits by 2 digits ..... 4.NBT.B. 5
Multiplication using place value understanding ..... 4.NBT.B. 5
Comparing with multiplication word problems ..... 4.OA.A. 1
Multiplying 2 digits by 2 digits with area models ..... 4.NBT.B. 5
Multiplying 4 digits by 1 digit with visual models ..... 4.NBT.B. 5
Multiplying fractions and whole numbers intuition ..... 4.NF.B. 4
Multiplying fractions and whole numbers word problems ..... 4.NF.B.4c
Multiplying unit fractions and whole numbers ..... 4.NF.B.4a
Multi-step word problems with whole numbers ..... 4.OA.A. 3
Prime numbers ..... 4.OA.B. 4
Rounding whole numbers ..... 4.NBT.A. 3
Subtracting fractions with common denominators ..... 4.NF.B.3a
Subtraction within 1000 ..... 3.NBT.A. 2 | 4.NBT.B. 4
Multiplying Fractions and Whole Numbers: Equivalent Expressions ..... 4.NF.B. 4
Understanding place value ..... 4.NBT.A. 1
Equivalent fractions introduction ..... 4.NF.A. 1
RIT Range: 204-212
Decomposing fractions ..... 4.NF.B.3b
RIT Range: 213-219
Adding decimals 15.NBT.B. 7

## The Real and Complex Number Systems

## Perform Operations <br> Standards Alignment

RIT Range: 213-219

Adding decimals 0.5
Adding fractions with unlike denominators
Adding and subtracting mixed numbers with unlike denominators
Adding and subtracting fractions with unlike denominators word problems
Comparing decimal place value
Dividing completely
Dividing decimals 1
Dividing decimals 2
Dividing decimals 3
Dividing whole numbers by unit fractions
Dividing unit fractions by whole numbers
Dividing unit fractions by whole numbers introduction
Dividing whole numbers by unit fractions introduction
Division by 2 digits
Division with fractions and whole numbers word problems
Fraction multiplication as scaling
Multi-digit multiplication
Multiplying decimals 1
Multiplying decimals 2
Multiplying fractions by whole numbers
Multiplying and dividing decimals by powers of 10
Multiplying and dividing whole numbers by powers of 10
Multiplying fractions by fractions word problems
Powers of ten
Regrouping decimals
Regrouping whole numbers
Rounding decimals
Subtracting decimals $\quad$ 5.NBT.B. 7
Subtracting decimals 0.5 5.NBT.B. 7

## The Real and Complex Number Systems

## Perform Operations <br> Standards Alignment

RIT Range: 213-219
Subtracting fractions with unlike denominators
5.NF.A. 1

Understanding moving the decimal 5.NBT.A. 2
Understanding fractions as division 5.NF.B. 3
Understanding fractions as division: word problems 5.NF.B. 3
Visually understanding multiplying fractions and whole numbers $\quad$ 5.NF.B.4a
Understanding multiplying fractions by fractions $\quad$ 5.NF.B.4a
$\underline{\text { Using visuals to add and subtract fractions with unlike denominators }} \quad$ 5.NF.A. 1

RIT Range: 220-223
Adding and subtracting decimals word problems 6.NS.B. 3
Adding decimals 2 6.NS.B. 3
Factoring numerical expressions using the distributive property 6.NS.B.4
Dividing decimals 4 6.NS.B. 3
Dividing fractions 6.NS.A. 1
Dividing fractions by fractions and whole numbers applications 6.NS.A. 1
Dividing fractions word problems 6.NS.A. 1
Multi-digit division 6.NS.B. 2
GCF and LCM word problems 6.NS.B. 4
Greatest common factor 6.NS.B. 4
Least common multiple 6.NS.B. 4
Multiplying decimals 3 6.NS.B. 3
Subtracting decimals $2 \quad$ 6.NS.B. 3
Understanding dividing fractions by fractions 6.NS.A. 1

RIT Range: 224-227

| Absolute value to find distance | 7.NS.A.1c |
| :--- | :--- |
| Adding and subtracting negative fractions | 7.NS.A. 1 \| 7.NS.A.1d |
| Subtracting negative numbers intro | 7.NS.A. 1 । 7.NS.A.1c |
| Adding and subtracting negative fractions, decimals, and percents | 7.NS.A.1d |
| Adding negative numbers intro | 7.NS.A. 1 |

## The Real and Complex Number Systems

## Perform Operations <br> Standards Alignment

RIT Range: 224-227
Adding negative numbers on the number line 7.NS.A.1b
Negative number addition and subtraction: word problems 7.NS.A. 1
Comparing rational numbers 7.NS.A.2 | 7.NS.A.2d
Simplifying hairy fractions 7.NS.A. 3
Absolute value to find distance $2 \quad$ 7.NS.A.1c
Converting fractions to decimals 7.NS.A.2 | 7.NS.A.2d
Dividing positive and negative fractions 7.NS.A.2b
Dividing by zero 7.NS.A.2b
Dividing mixed numbers 7.NS.A. 2
Whole number exponents with integer bases 2 7.NS.A. 2
Whole number exponents with integer bases 7.NS.A. 2
Exponents with negative fractional bases 7.NS.A. 2
Classifying numbers 7.NS.A. 3
Integer addition and subtraction: find the missing value 7.NS.A.1 | 7.NS.A.1c
Integer addition and subtraction 7.NS.A. 1 | 7.NS.A.1d
Integer addition and subtraction with substitution 7.NS.A. 1
Signs of products and quotients 7.NS.A. 2 b
Multiplying and dividing negative numbers 7.NS.A. 2
Multiplying positive and negative fractions 7.NS.A.2a
Integer addition and subtraction: equations and number lines 7.NS.A. 1
Negative number addition and subtraction: equivalent expressions 7.NS.A. 1
Negative number addition and subtraction: interpretation problems 7.NS.A. 1
Multiplying and dividing negative numbers: word problems 7.NS.A. 2
Negative signs in numerators and denominators 7.NS.A.2b
Order of operations with negative numbers 7.NS.A. 2
Negative number multiplication and division: equivalent expressions 7.NS.A.2c
Signs of sums 7.NS.A.1b
Integer addition and subtraction: number line interpretation 7.NS.A. 1
Understanding negative number addition and subtraction with variables 7.NS.A. 1

## The Real and Complex Number Systems

Perform Operations Standards Alignment
RIT Range: > 231
Adding and subtracting complex numbers ..... HSN-CN.A. 2
Imaginary unit powers ..... HSN-CN.A. 2
Measurement precision ..... HSN-Q.A. 3
Multiplying complex numbers ..... HSN-CN.A. 2
The imaginary unit and complex numbers ..... HSN-CN.A. 1
Working with units algebraically ..... HSN-Q.A. 1
RIT Range: > 235
Adding and subtracting radicals ..... HSN-RN.A. 2
The Real and Complex Number Systems
Ratios and Proportional Relationships Standards Alignment
RIT Range: 203-212
Converting larger units to smaller units ..... 4.MD.A. 1
Converting money word problems ..... 4.MD.A. 2
Time word problems ..... 4.MD.A. 2
Multi-step word problems with whole numbers ..... 4.OA.A. 3
$\underline{U n i t ~ s e n s e}$ ..... 4.MD.A. 1
RIT Range: 213-219
Converting units word problems (metric) ..... 5.MD.A. 1
Converting units (metrics) ..... 5.MD.A. 1
Converting units (US customary) ..... 5.MD.A. 1
Converting units word problems (US customary) ..... 5.MD.A. 1
Division with fractions and whole numbers word problems ..... 5.NF.B.7c
RIT Range: 220-223
Comparing rates ..... 6.RP.A. 2 | 6.RP.A. 3 | 6.RP.A.3b
Converting between fractions and percents ..... 6.RP.A.3C
Finding percents ..... 6.RP.A. 3 | 6.RP.A.3c

## The Real and Complex Number Systems

Ratios and Proportional Relationships Standards Alignment
RIT Range: 220-223
Percent word problems
Basic rate problems
Ratio word problems
Basic ratios
Solving ratio problems with tables6.RP.A. 3 | 6.RP.A.3a
RIT Range: 221-225
Units
6.RP.A.3 | 6.RP.A.3d
RIT Range: 224-227
Identifying proportional relationships ..... 7.RP.A.2a
Identifying proportional relationships with graphs ..... 7.RP.A.2a
Proportion word problems ..... 7.RP.A. 3
Discount, tax, and tip word problems ..... 7.RP.A. 3
Interpreting graphs of proportional relationships ..... 7.RP.A.2d
Markup and commission word problems ..... 7.RP.A. 3
Solving proportions ..... 7.RP.A. 3
Rate problems with fractions 7.RP.A. 1 | 7.RP.A.2b
Writing proportions ..... 7.RP.A. 3
Writing proportional equations ..... 7.RP.A.2c

