

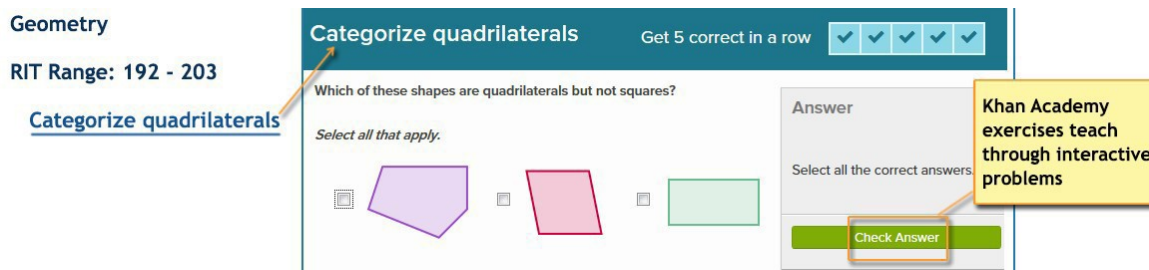
MAP Growth Mathematics to Khan Academy

Khan Academy Practice Exercises Correlated to RIT

Common Core MAP Growth Math 6+

About this Document

This document correlates MAP® Growth™ test sub-goals and RIT ranges to Khan Academy® exercises. The Khan Academy exercises are interactive problems for students with instant feedback.



Geometry

RIT Range: 192 - 203

[Categorize quadrilaterals](#)

Categorize quadrilaterals Get 5 correct in a row

Which of these shapes are quadrilaterals but not squares?

Select all that apply.

Answer

Select all the correct answers

Check Answer

Khan Academy exercises teach through interactive problems

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 Growth RIT scores and the Khan Academy exercises was determined by using our 2015 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 sub-goals.

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 Growth 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:
 - Consider both the name of the exercise and the CCSS standard.
 - 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 Growth.
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 Growth data should be used as one of many data points for instructional decisions rather than as a placement guide.

Terms of Use

These Terms of Use permit you to use this document for your personal, non-commercial use only. You must not reproduce, distribute, modify, create derivative works of, publicly display, publicly perform, republish, download, store or transmit any of the material on this document, except you may print or download one copy of a reasonable number of pages of this document for your own personal, non-commercial use and not for further reproduction, publication or distribution. You must not modify copies of this document. You must not delete or alter any copyright, trademark or other proprietary rights notices from this document. If you breach the Terms of Use your right to use the document will cease immediately and you must, at the option of NWEA®, return or destroy any copies of the document you have made. No right, title or interest in or to the document or any content on the document is transferred to you, and all rights not expressly granted are reserved by NWEA or their respective owner (see below). Any use of the document not expressly permitted by these Terms of Use is a breach of these Terms of Use and may violate copyright, trademark and other laws.

This document contains links to Khan Academy sites, materials and/or resources (“Khan Materials”). The use of the Khan Materials by NWEA is by license. Khan Academy is the respective owner of the Khan Materials. Use of the Khan Materials by NWEA in no way represents or suggests that Khan Academy endorses NWEA. All Khan Academy content is available for free at www.khanacademy.org.

The Khan Materials are provided for your convenience only. NWEA has no control over the contents of the Khan Materials and accepts no responsibility for them or for any loss or damage that may arise from your use of them. The information contained in this document, including the Khan Materials, are provided “as-is” and “as available” without any warranty of any kind, express or implied. NWEA does not warrant the accuracy, completeness or usefulness of the Khan Materials or any other information in this document and NWEA expressly disclaims all liability and responsibility arising from any reliance placed on the Khan Materials and/or any other information in this document. If you decide to access any of the Khan Materials, you do so entirely at your own risk and subject to the terms and conditions of use for the Khan Materials.

NWEA disclaims all warranties of any kind, whether express or implied, statutory or otherwise, including but not limited to any warranties of merchantability, non-infringement and fitness for particular purpose. In no event will NWEA be liable for damages of any kind, under any legal theory, arising out of or in connection with your use, or inability to use, this document and/or the information contained within it, including any direct, indirect, special, consequential, incidental or punitive damages. Any dispute or claim arising from or related to this document shall be governed and construed with the laws of the State of Oregon and any suit or action arising out of this document shall be instituted exclusively in the court of the State of Oregon and County of Multnomah.

The Khan Academy® is a registered trademark of Khan Academy. MAP® is a registered trademark of NWEA. You must not use such marks without the prior written permission of their respective owners. NWEA may update the content on this document from time to time, but its content is not necessarily complete or up-to-date. Any of the material in this document may be out of date at any given time, and NWEA is under no obligation to update such material. However, in the event NWEA, in its sole discretion updates this document, your continued use of it following the posting of revised Terms of Use means that you accept and agree to the changes.

MAP Growth Mathematics Khan Academy Practice Exercises Correlation

Common Core Math 6+

Geometry

Congruence, Similarity, Right Triangles, & Trig Pg. 4

Geometric Measurement and Relationships Pg. 7

Operations and Algebraic Thinking

Expressions and Equations Pg. 15

Use Functions to Model Relationships Pg. 25

Statistics and Probability

Interpreting Categorical and Quantitative Data Pg. 33

Using Sampling and Probability to Make Decisions Pg. 37

The Real and Complex Number Systems

Extend and Use Properties Pg. 38

Perform Operations Pg. 43

Ratios and Proportional Relationships Pg. 55

Geometry

Congruence, Similarity, Right Triangles, & Trig

Standards Alignment

RIT Range: 203-212

Draw lines of symmetry and symmetrical figures	4.G.A.3
Identify lines of symmetry	4.G.A.3
Identify symmetrical figures	4.G.A.3

RIT Range: 228-231

Perform reflections	8.G.A.1 8.G.A.3 HSG-CO.A.2 HSG-CO.A.5
Perform rotations	8.G.A.1 8.G.A.3 HSG-CO.A.2 HSG-CO.A.5
Perform translations	8.G.A.1 8.G.A.3 HSG-CO.A.2 HSG-CO.A.5
Congruence & transformations	8.G.A.2 HSG-CO.B.6
Similarity & transformations	8.G.A.4 HSG-SRT.A.2
Angle relationships with parallel lines	8.G.A.5
Equation practice with angle addition	8.G.A.5
Equation practice with angles	8.G.A.5
Find angles in triangles	8.G.A.5
Finding angle measures between intersecting lines	8.G.A.5
Finding angle measures using triangles	8.G.A.5
Find angles in isosceles triangles	8.G.A.5 HSG-SRT.B.5
Use area of squares to visualize Pythagorean theorem	8.G.B.6
Pythagorean theorem challenge	8.G.B.7
Pythagorean theorem in 3D	8.G.B.7
Pythagorean theorem word problems	8.G.B.7
Right triangle side lengths	8.G.B.7
Use Pythagorean theorem to find area and perimeter	8.G.B.7
Use Pythagorean theorem to find isosceles triangle side lengths	8.G.B.7
Use Pythagorean theorem to find right triangle side lengths	8.G.B.7

Geometry

Congruence, Similarity, Right Triangles, & Trig

Standards Alignment

RIT Range: 228-231

[Distance between two points](#)

8.G.B.8

RIT Range: 232-255

[Perform reflections](#)

8.G.A.1 | 8.G.A.3 | HSG-CO.A.2 | HSG-CO.A.5

[Perform rotations](#)

8.G.A.1 | 8.G.A.3 | HSG-CO.A.2 | HSG-CO.A.5

[Perform translations](#)

8.G.A.1 | 8.G.A.3 | HSG-CO.A.2 | HSG-CO.A.5

[Congruence & transformations](#)

8.G.A.2 | HSG-CO.B.6

[Similarity & transformations](#)

8.G.A.4 | HSG-SRT.A.2

[Find angles in isosceles triangles](#)

8.G.A.5 | HSG-SRT.B.5

[Geometric definitions](#)

HSG-CO.A.1

[Sequences of transformations](#)

HSG-CO.A.2

[Identify transformations](#)

HSG-CO.A.2 | HSG-CO.A.4

[Determine reflections](#)

HSG-CO.A.2 | HSG-CO.A.5

[Determine rotations](#)

HSG-CO.A.2 | HSG-CO.A.5

[Determine translations](#)

HSG-CO.A.2 | HSG-CO.A.5

[Symmetry of 2D shapes](#)

HSG-CO.A.3

[Advanced reflections](#)

HSG-CO.A.5

[Reflect shapes](#)

HSG-CO.A.5

[Rotate shapes](#)

HSG-CO.A.5

[Rotate shapes: center % \(0,0\)](#)

HSG-CO.A.5

[Translate shapes](#)

HSG-CO.A.5

[Determine mappings](#)

HSG-CO.B.6

[Line & angle proofs](#)

HSG-CO.C.9

[Determine dilations](#)

HSG-SRT.A.1

[Perform dilations](#)

HSG-SRT.A.1

Geometry

Congruence, Similarity, Right Triangles, & Trig

Standards Alignment

RIT Range: 232-255

Dilate shapes	HSG-SRT.A.1 HSG-SRT.A.2
Similarity & transformations (advanced)	HSG-SRT.A.2
Determine congruent triangles	HSG-SRT.B.5
Determine similar triangles: AA	HSG-SRT.B.5
Determine similar triangles: SSS	HSG-SRT.B.5
Find angles in congruent triangles	HSG-SRT.B.5
Solve similar triangles (advanced)	HSG-SRT.B.5
Solve similar triangles (basic)	HSG-SRT.B.5
Solve triangles: angle bisector theorem	HSG-SRT.B.5
Use similar & congruent triangles	HSG-SRT.B.5
Reciprocal trig ratios	HSG-SRT.C.6
Trigonometry 0.5	HSG-SRT.C.6
Trigonometry 1.5	HSG-SRT.C.6
Solve for a side in right triangles	HSG-SRT.C.6 HSG-SRT.C.8
Trigonometric ratios in right triangles	HSG-SRT.C.6 HSG-SRT.C.8
Right triangle word problems	HSG-SRT.C.8
Solve for an angle in right triangles	HSG-SRT.C.8
Special right triangles	HSG-SRT.C.8

Geometry

Geometric Measurement and Relationships

Standards Alignment

RIT Range: < 160

Name shapes 1	K.G.A.1
Relative position	K.G.A.1
Name shapes 2	K.G.A.2
Compare shapes	K.G.B.4
Compose shapes	K.G.B.6
Compare size	K.MD.A.2

RIT Range: 161-178

Name shapes 3	1.G.A.1
Indirect measurement	1.MD.A.1
Order by length	1.MD.A.1
Measure lengths 1	1.MD.A.2
Tell time to hour or half hour	1.MD.B.3

RIT Range: 179-191

Name shapes 4	2.G.A.1
Measure lengths 2	2.MD.A.1
Estimate lengths	2.MD.A.3
Length word problems	2.MD.B.5
Tell time with a labeled clock	2.MD.C.7
Tell time without labels	2.MD.C.7

RIT Range: 192-202

Tell time to the nearest minute	3.MD.A.1
Telling time on the number line	3.MD.A.1
Telling time word problems (within the hour)	3.MD.A.1
Time differences (within the hour)	3.MD.A.1

Geometry

Geometric Measurement and Relationships

Standards Alignment

RIT Range: 192-202

Time word problems with number line	3.MD.A.1
Word problems with mass	3.MD.A.2
Word problems with volume	3.MD.A.2
Estimate mass (grams and kilograms)	3.MD.A.2 4.MD.A.1
Estimate volume (milliliters and liters)	3.MD.A.2 4.MD.A.1
Understanding area	3.MD.C.5
Create rectangles with a given area	3.MD.C.6
Find area with partial unit squares	3.MD.C.6
Area of rectangles	3.MD.C.7
Compare areas by multiplying	3.MD.C.7
Decompose figures to find area 1	3.MD.C.7
Decompose figures to find area 2	3.MD.C.7
Find a missing side length when given area	3.MD.C.7
Measure to find area	3.MD.C.7
Transition from unit squares to area formula	3.MD.C.7
Compare area and perimeter	3.MD.D.8
Find a missing side length when given perimeter	3.MD.D.8
Find perimeter by counting unit squares	3.MD.D.8
Find perimeter when given side lengths	3.MD.D.8
Measure to find perimeter	3.MD.D.8
Perimeter word problems	3.MD.D.8

RIT Range: 203-212

Estimate mass (grams and kilograms)	3.MD.A.2 4.MD.A.1
Estimate volume (milliliters and liters)	3.MD.A.2 4.MD.A.1

Geometry

Geometric Measurement and Relationships

Standards Alignment

RIT Range: 203-212

Angle types	4.G.A.1
Draw parallel and perpendicular lines	4.G.A.1
Draw rays, lines, & line segments	4.G.A.1
Draw right, acute, and obtuse angles	4.G.A.1
Identify parallel and perpendicular lines	4.G.A.1
Identify rays, lines, & line segments	4.G.A.1
Recognize angles	4.G.A.1
Classify shapes by line and angle types	4.G.A.2
Identify triangles by angles	4.G.A.2
Identify triangles by side lengths	4.G.A.2
Quadrilateral types	4.G.A.2
Estimating length (in, ft, yd, and mi)	4.MD.A.1
Estimating length (mm, cm, m, km)	4.MD.A.1
Estimating mass (ounces and pounds)	4.MD.A.1
Estimating time (seconds, minutes, and hours)	4.MD.A.1
Estimating volume (cups, pints, quarts, and gallons)	4.MD.A.1
Time conversion word problems	4.MD.A.2
Time differences	4.MD.A.2
Area & perimeter of rectangles word problems	4.MD.A.3
Area of squares and rectangles	4.MD.A.3
Angle basics	4.MD.C.5
Benchmark angles	4.MD.C.5
Name angles	4.MD.C.5
Draw angles	4.MD.C.6
Measure angles	4.MD.C.6

Geometry

Geometric Measurement and Relationships

Standards Alignment

RIT Range: 203-212

[Angles in circles](#)

4.MD.C.6 | 5.MD.C.5

[Decompose angles](#)

4.MD.C.7

RIT Range: 213-219

[Angles in circles](#)

4.MD.C.6 | 5.MD.C.5

[Coordinate plane word problems \(quadrant 1 - challenging\)](#)

5.G.A.2

[Distance between points in first quadrant](#)

5.G.A.2

[Graph points](#)

5.G.A.2

[Identify coordinates](#)

5.G.A.2

[Identify points](#)

5.G.A.2

[Shapes on the coordinate plane](#)

5.G.A.2

[Properties of shapes](#)

5.G.B.3

[Volume with unit cubes 1](#)

5.MD.C.4

[Compare volumes with unit cubes](#)

5.MD.C.4 | 5.MD.C.5

[Decompose figures to find volume](#)

5.MD.C.5

[Decompose figures to find volume \(unit cubes\)](#)

5.MD.C.5

[Volume 1](#)

5.MD.C.5

[Volume formula intuition](#)

5.MD.C.5

[Volume word problems](#)

5.MD.C.5

RIT Range: 220-223

[Area challenge](#)

6.G.A.1

[Area of composite shapes](#)

6.G.A.1

[Area of parallelograms](#)

6.G.A.1

[Area of right triangles](#)

6.G.A.1

[Area of trapezoids](#)

6.G.A.1

Geometry

Geometric Measurement and Relationships

Standards Alignment

RIT Range: 220-223

Area of triangles	6.G.A.1
Find base and height on a triangle	6.G.A.1
Find missing length when given area of a parallelogram	6.G.A.1
Find missing length when given area of a triangle	6.G.A.1
Volume by multiplying area of base times height	6.G.A.2
Volume with cubes with fraction lengths	6.G.A.2
Volume with fractions	6.G.A.2
Volume word problems: fractions & decimals	6.G.A.2
Area and perimeter on the coordinate plane	6.G.A.3
Drawing polygons with coordinates	6.G.A.3
Quadrilateral problems on the coordinate plane	6.G.A.3
Find surface area by adding areas of faces	6.G.A.4
Nets of polyhedra	6.G.A.4
Surface area	6.G.A.4
Surface area using nets	6.G.A.4
Surface area word problems	6.G.A.4

RIT Range: 224-227

Constructing scale drawings	7.G.A.1
Interpreting scale drawings	7.G.A.1
Constructing triangles	7.G.A.2
Ordering triangle sides and angles	7.G.A.2
Triangle side length rules	7.G.A.2
Cross sections of 3D objects (basic)	7.G.A.3 HSG-GMD.B.4
Area and circumference of circles challenge	7.G.B.4

Geometry

Geometric Measurement and Relationships

Standards Alignment

RIT Range: 224-227

Area and circumference of parts of circles	7.G.B.4
Area of a circle	7.G.B.4
Circumference of a circle	7.G.B.4
Radius and diameter	7.G.B.4
Complementary and supplementary angles (no visual)	7.G.B.5
Complementary and supplementary angles (visual)	7.G.B.5
Create equations to solve for missing angles	7.G.B.5
Finding missing angles	7.G.B.5
Identifying supplementary, complementary, and vertical angles	7.G.B.5
Quadrilateral angles	7.G.B.5
Unknown angle problems (with algebra)	7.G.B.5
Vertical angles	7.G.B.5
Shaded areas	7.G.B.6
Volume and surface area word problems	7.G.B.6

RIT Range: 228-231

Volume of cones	8.G.C.9
Volume of cylinders, spheres, and cones word problems	8.G.C.9
Volume of spheres	8.G.C.9
Volumes of cylinders	8.G.C.9
Solid geometry	8.G.C.9 HSG-GMD.A.3
Solid geometry word problems	8.G.C.9 HSG-GMD.A.3 HSG-MG.A.1

RIT Range: 232-255

Cross sections of 3D objects (basic)	7.G.A.3 HSG-GMD.B.4
Solid geometry	8.G.C.9 HSG-GMD.A.3

Geometry

Geometric Measurement and Relationships

Standards Alignment

RIT Range: 232-255

Solid geometry word problems	8.G.C.9 HSG-GMD.A.3 HSG-MG.A.1
Inscribed angles	HSG-C.A.2
Inscribed shapes	HSG-C.A.2
Tangents of circles problems	HSG-C.A.2
Quiz: Inscribed quadrilaterals	HSG-C.A.3
Arc length	HSG-C.B.5
Arc measure	HSG-C.B.5
Arc measure with equations	HSG-C.B.5
Area of a sector	HSG-C.B.5
Radians & arc length	HSG-C.B.5
Radians & degrees	HSG-C.B.5
Density word problems	HSG-GMD.A.3 HSG-MG.A.2
Cross sections of 3D objects	HSG-GMD.B.4
Rotate 2D shapes in 3D	HSG-GMD.B.4
Features of a circle from its expanded equation	HSG-GPE.A.1
Features of a circle from its graph	HSG-GPE.A.1
Features of a circle from its standard equation	HSG-GPE.A.1
Graph a circle from its expanded equation	HSG-GPE.A.1
Graph a circle from its features	HSG-GPE.A.1
Graph a circle from its standard equation	HSG-GPE.A.1
Write standard equation of a circle	HSG-GPE.A.1
Equation of a parabola from focus & directrix	HSG-GPE.A.2
Points inside/outside/on a circle	HSG-GPE.B.4
Parallel & perpendicular lines from equation	HSG-GPE.B.5
Parallel & perpendicular lines from graph	HSG-GPE.B.5

Geometry

Geometric Measurement and Relationships

Standards Alignment

RIT Range: 232-255

[Write equations of parallel & perpendicular lines](#)

HSG-GPE.B.5

[Divide line segments](#)

HSG-GPE.B.6

[Midpoint formula](#)

HSG-GPE.B.6

[Area & perimeter on the coordinate plane](#)

HSG-GPE.B.7

[Coordinate plane word problems: polygons](#)

HSG-GPE.B.7

Operations and Algebraic Thinking

Expressions and Equations

Standards Alignment

RIT Range: < 160

[Making small numbers in different ways](#)

K.OA.A.3

RIT Range: 161-178

[Relate addition and subtraction](#)

1.OA.B.4

[Equal sign](#)

1.OA.D.7

[Find missing number \(add and subtract within 20\)](#)

1.OA.D.8

RIT Range: 179-191

[Add and subtract on the number line word problems](#)

2.MD.B.6

RIT Range: 192-202

[Relate division to multiplication word problems](#)

3.OA.A.3 | 3.OA.B.6

[Find missing divisors and dividends \(1-digit division\)](#)

3.OA.A.4

[Find missing factors \(1-digit multiplication\)](#)

3.OA.A.4

[Letters and symbols in multiplication and division equations](#)

3.OA.A.4

[Associative property of multiplication](#)

3.OA.B.5

[Commutative property of multiplication](#)

3.OA.B.5

[Distributive property of multiplication](#)

3.OA.B.5

RIT Range: 203-212

[Compare with multiplication](#)

4.OA.A.1

[Multi-step word problems with whole numbers](#)

4.OA.A.3

[Represent multi-step word problems using equations](#)

4.OA.A.3

RIT Range: 213-219

[Powers of ten](#)

5.NBT.A.2

[Evaluate expressions with parentheses](#)

5.OA.A.1

[Create expressions with parentheses](#)

5.OA.A.2

Operations and Algebraic Thinking

Expressions and Equations

Standards Alignment

RIT Range: 213-219

[Translate expressions with parentheses](#)

5.OA.A.2

RIT Range: 220-223

[Exponents](#)

6.EE.A.1

[Powers of fractions](#)

6.EE.A.1

[Order of operations challenge](#)

6.EE.A.1 | 6.EE.A.2

[Evaluating expressions with one variable](#)

6.EE.A.2

[Evaluating expressions with two variables](#)

6.EE.A.2

[Evaluating expressions with two variables: fractions & decimals](#)

6.EE.A.2

[Evaluating expressions with variables word problems](#)

6.EE.A.2

[Expression value intuition](#)

6.EE.A.2

[Order of operations](#)

6.EE.A.2

[Terms, factors, & coefficients](#)

6.EE.A.2

[Writing basic expressions with variables](#)

6.EE.A.2

[Writing basic expressions word problems](#)

6.EE.A.2

[Writing expressions with variables](#)

6.EE.A.2

[Writing expressions word problems](#)

6.EE.A.2

[Combining like terms](#)

6.EE.A.3

[Combining like terms with distribution](#)

6.EE.A.3

[Distributive property with variables](#)

6.EE.A.3

[Equivalent expressions](#)

6.EE.A.3

[Factor with the distributive property](#)

6.EE.A.3

[Testing solutions to inequalities](#)

6.EE.B.5

[Testing solutions to equations](#)

6.EE.B.5 | 6.EE.B.7

[Modeling with one-step equations](#)

6.EE.B.6 | 6.EE.B.7

Operations and Algebraic Thinking

Expressions and Equations

Standards Alignment

RIT Range: 220-223

Find the mistake in one-step equations	6.EE.B.7
One-step addition & subtraction equations	6.EE.B.7
One-step addition & subtraction equations: fractions & decimals	6.EE.B.7
One-step multiplication & division equations	6.EE.B.7
One-step multiplication & division equations: fractions & decimals	6.EE.B.7
Inequalities word problems	6.EE.B.7 6.EE.B.8
Inequality from graph	6.EE.B.8
Plotting inequalities	6.EE.B.8
Identify dependent & independent variables	6.EE.C.9

RIT Range: 224-227

Combining like terms with negative coefficients	7.EE.A.1
Combining like terms with negative coefficients & distribution	7.EE.A.1
Combining like terms with rational coefficients	7.EE.A.1
Equivalent expressions: negative numbers & distribution	7.EE.A.1
The distributive property with variables	7.EE.A.1
Interpreting linear expressions	7.EE.A.2
Rational number word problems	7.EE.B.3
Find the mistake: two-step equations	7.EE.B.4
One-step inequalities	7.EE.B.4
Two-step equations with decimals and fractions	7.EE.B.4
Two-step equations word problems	7.EE.B.4
Two-step inequalities	7.EE.B.4
Two-step inequality word problems	7.EE.B.4
Two-step equations	7.EE.B.4 HSA-REI.B.3

Operations and Algebraic Thinking

Expressions and Equations

Standards Alignment

RIT Range: 228-231

Divide powers	8.EE.A.1
Multiply & divide powers (integer exponents)	8.EE.A.1
Multiply powers	8.EE.A.1
Negative exponents	8.EE.A.1
Powers of powers	8.EE.A.1
Powers of products & quotients	8.EE.A.1
Powers of products & quotients (integer exponents)	8.EE.A.1
Powers of products & quotients (structured practice)	8.EE.A.1
Properties of exponents challenge (integer exponents)	8.EE.A.1
Cube roots	8.EE.A.2
Equations with square roots & cube roots	8.EE.A.2
Roots of decimals & fractions	8.EE.A.2
Square and cube challenge	8.EE.A.2
Square roots	8.EE.A.2
Scientific notation	8.EE.A.3
Approximating with powers of 10	8.EE.A.3 8.EE.A.4
Multiplication and division with powers of ten	8.EE.A.3 8.EE.A.4
Adding & subtracting in scientific notation	8.EE.A.4
Multiplying & dividing in scientific notation	8.EE.A.4
Scientific notation challenge	8.EE.A.4
Graphing proportional relationships	8.EE.B.5
Rates & proportional relationships	8.EE.B.5
Equation practice with angle addition	8.EE.C.7
Equation practice with midpoints	8.EE.C.7
Equation practice with segment addition	8.EE.C.7

Operations and Algebraic Thinking

Expressions and Equations

Standards Alignment

RIT Range: 228-231

Equation practice with vertical angles	8.EE.C.7
Number of solutions to equations	8.EE.C.7
Number of solutions to equations challenge	8.EE.C.7
Sums of consecutive integers	8.EE.C.7
Equations with parentheses	8.EE.C.7 HSA-REI.B.3
Equations with parentheses: decimals & fractions	8.EE.C.7 HSA-REI.B.3
Equations with variables on both sides	8.EE.C.7 HSA-REI.B.3
Equations with variables on both sides: decimals & fractions	8.EE.C.7 HSA-REI.B.3
Age word problems	8.EE.C.8 HSA-CED.A.2 HSA-CED.A.3 HSA-REI.C.6
Systems of equations word problems	8.EE.C.8 HSA-CED.A.2 HSA-CED.A.3 HSA-REI.C.6
Equivalent systems of equations	8.EE.C.8 HSA-REI.C.5
Systems of equations with elimination	8.EE.C.8 HSA-REI.C.6
Systems of equations with elimination challenge	8.EE.C.8 HSA-REI.C.6
Systems of equations with substitution	8.EE.C.8 HSA-REI.C.6
Solutions of systems of equations	8.EE.C.8 HSA-REI.C.6 HSA-REI.D.11
Systems of equations with graphing	8.EE.C.8 HSA-REI.C.6 HSA-REI.D.11
Linear systems of equations capstone	8.EE.C.8 HSA-REI.C.6 HSA-SSE.B.3
Number of solutions to a system of equations algebraically	8.EE.C.8 HSA-REI.D.10 HSA-REI.D.11
Number of solutions to a system of equations graphically	8.EE.C.8 HSA-REI.D.10 HSA-REI.D.11

RIT Range: 232-245

Two-step equations	7.EE.B.4 HSA-REI.B.3
Equations with parentheses	8.EE.C.7 HSA-REI.B.3
Equations with parentheses: decimals & fractions	8.EE.C.7 HSA-REI.B.3
Equations with variables on both sides	8.EE.C.7 HSA-REI.B.3

Operations and Algebraic Thinking

Expressions and Equations

Standards Alignment

RIT Range: 232-245

Equations with variables on both sides: decimals & fractions	8.EE.C.7 HSA-REI.B.3
Age word problems	8.EE.C.8 HSA-CED.A.2 HSA-CED.A.3 HSA-REI.C.6
Systems of equations word problems	8.EE.C.8 HSA-CED.A.2 HSA-CED.A.3 HSA-REI.C.6
Equivalent systems of equations	8.EE.C.8 HSA-REI.C.5
Systems of equations with elimination	8.EE.C.8 HSA-REI.C.6
Systems of equations with elimination challenge	8.EE.C.8 HSA-REI.C.6
Systems of equations with substitution	8.EE.C.8 HSA-REI.C.6
Solutions of systems of equations	8.EE.C.8 HSA-REI.C.6 HSA-REI.D.11
Systems of equations with graphing	8.EE.C.8 HSA-REI.C.6 HSA-REI.D.11
Linear systems of equations capstone	8.EE.C.8 HSA-REI.C.6 HSA-SSE.B.3
Number of solutions to a system of equations algebraically	8.EE.C.8 HSA-REI.D.10 HSA-REI.D.11
Number of solutions to a system of equations graphically	8.EE.C.8 HSA-REI.D.10 HSA-REI.D.11
Add & subtract polynomials challenge	HSA-APR.A.1
Add & subtract polynomials: find the error	HSA-APR.A.1
Add & subtract polynomials: two variables (intro)	HSA-APR.A.1
Add polynomials (intro)	HSA-APR.A.1
Multiply binomials	HSA-APR.A.1
Multiply binomials intro	HSA-APR.A.1
Multiply monomials intro	HSA-APR.A.1
Special products of binomials	HSA-APR.A.1
Special products of binomials intro	HSA-APR.A.1
Subtract polynomials (intro)	HSA-APR.A.1
Multiply monomials	HSA-APR.A.1 HSA-SSE.A.1
Divide polynomials with remainders	HSA-APR.D.6

Operations and Algebraic Thinking

Expressions and Equations

Standards Alignment

RIT Range: 232-245

Divide polynomials with remainders: binomial divisors	HSA-APR.D.6
Divide polynomials with remainders: monomial divisors	HSA-APR.D.6
Equations & inequalities word problems	HSA-CED.A.1
Multiple units word problems	HSA-CED.A.1
Construct exponential models	HSA-CED.A.2
Graphing linear functions word problems	HSA-CED.A.2
Linear models word problems	HSA-CED.A.2
Systems of equations word problems capstone	HSA-CED.A.2 HSA-CED.A.3 HSA-REI.C.6
Constraint solutions of systems of inequalities	HSA-CED.A.3
Constraint solutions of two-variable inequalities	HSA-CED.A.3
Solutions of inequalities: algebraic	HSA-CED.A.3
Solutions of inequalities: graphical	HSA-CED.A.3
Solutions of systems of inequalities	HSA-CED.A.3
Systems of inequalities word problems	HSA-CED.A.3
Two-variable inequalities word problems	HSA-CED.A.3
Manipulate formulas	HSA-CED.A.4
Compound inequalities	HSA-REI.B.3
Linear equations with unknown coefficients	HSA-REI.B.3
Multi-step linear inequalities	HSA-REI.B.3
Number of solutions of quadratic equations	HSA-REI.B.4
Quadratic formula	HSA-REI.B.4
Quadratics by taking square roots	HSA-REI.B.4
Quadratics by taking square roots: strategy	HSA-REI.B.4
Solve equations using structure	HSA-REI.B.4 HSA-SSE.A.2 HSA-SSE.B.3

Operations and Algebraic Thinking

Expressions and Equations

Standards Alignment

RIT Range: 232-245

Completing the square	HSA-REI.B.4 HSA-SSE.B.3
Completing the square (intermediate)	HSA-REI.B.4 HSA-SSE.B.3
Completing the square (intro)	HSA-REI.B.4 HSA-SSE.B.3
Quadratic word problems (standard form)	HSA-REI.B.4 HSA-SSE.B.3
Solve quadratics by factoring	HSA-REI.B.4 HSA-SSE.B.3
Solve quadratics by factoring (intro)	HSA-REI.B.4 HSA-SSE.B.3
Complete solutions to 2-variable equations	HSA-REI.D.10
Solutions to 2-variable equations	HSA-REI.D.10
Interpret equations graphically	HSA-REI.D.11
Graphs of inequalities	HSA-REI.D.12
Systems of inequalities graphs	HSA-REI.D.12
Two-variable inequalities from their graphs	HSA-REI.D.12
Interpret basic exponential functions	HSA-SSE.A.1
Analyzing structure with linear inequalities	HSA-SSE.A.1 HSA-SSE.B.3
Interpret change in exponential models: changing units	HSA-SSE.A.1 HSA-SSE.B.3
Interpret change in exponential models: with manipulation	HSA-SSE.A.1 HSA-SSE.B.3
Difference of squares	HSA-SSE.A.2
Evaluate expressions using structure	HSA-SSE.A.2
Evaluate expressions using structure (advanced)	HSA-SSE.A.2
Manipulate expressions using structure	HSA-SSE.A.2
Difference of squares intro	HSA-SSE.A.2 HSA-SSE.B.3
Perfect squares	HSA-SSE.A.2 HSA-SSE.B.3
Convert linear equations to standard form	HSA-SSE.B.3
Factor quadratics by grouping	HSA-SSE.B.3
Factoring quadratics intro	HSA-SSE.B.3

Operations and Algebraic Thinking

Expressions and Equations

Standards Alignment

RIT Range: 232-245

Features of quadratic functions	HSA-SSE.B.3
Features of quadratic functions: strategy	HSA-SSE.B.3
Interpret change in exponential models	HSA-SSE.B.3
Interpret time in exponential models	HSA-SSE.B.3
Rewrite exponential expressions	HSA-SSE.B.3
Slope from equation	HSA-SSE.B.3

RIT Range: 246-255

Add & subtract polynomials: two variables challenge	HSA-APR.A.1
Multiply binomials by polynomials	HSA-APR.A.1
Multiply monomials by polynomials	HSA-APR.A.1
Multiply monomials by polynomials challenge	HSA-APR.A.1
Multiply monomials by polynomials: area model	HSA-APR.A.1
Multiply monomials	HSA-APR.A.1 HSA-SSE.A.1
Use the Polynomial Remainder Theorem	HSA-APR.B.2
Positive & negative intervals of polynomials	HSA-APR.B.3
Find zeros of polynomials	HSA-APR.B.3 HSA-SSE.A.2 HSA-SSE.B.3
Zeros of polynomials & their graphs	HSA-APR.B.3 HSA-SSE.A.2 HSA-SSE.B.3
Prove polynomial identities	HSA-APR.C.4
Simplify rational expressions (advanced)	HSA-APR.D.6
Simplify rational expressions: common binomial factors	HSA-APR.D.6
Simplify rational expressions: common monomial factors	HSA-APR.D.6
Equations with one rational expression	HSA-REI.A.2
Equations with one rational expression (advanced)	HSA-REI.A.2
Equations with two rational expressions	HSA-REI.A.2

Operations and Algebraic Thinking

Expressions and Equations

Standards Alignment

RIT Range: 246-255

[Extraneous solutions of radical equations](#)

HSA-REI.A.2

[Solve square-root equations](#)

HSA-REI.A.2

[Solve square-root equations \(basic\)](#)

HSA-REI.A.2

[Solve quadratic equations: complex solutions](#)

HSA-REI.B.4 | HSN-CN.C.7

[Solve equations graphically](#)

HSA-REI.D.11

[Factoring polynomials challenge](#)

HSA-SSE.A.2

[Factor polynomials: quadratic methods](#)

HSA-SSE.A.2 | HSA-SSE.B.3

[Factor polynomials: quadratic methods \(challenge\)](#)

HSA-SSE.A.2 | HSA-SSE.B.3

[Factor polynomials: special product forms](#)

HSA-SSE.A.2 | HSA-SSE.B.3

[Equivalent forms of exponential expressions](#)

HSA-SSE.B.3

[Finite geometric series](#)

HSA-SSE.B.4

[Finite geometric series in sigma notation](#)

HSA-SSE.B.4

[Finite geometric series word problems](#)

HSA-SSE.B.4

Operations and Algebraic Thinking

Use Functions to Model Relationships

Standards Alignment

RIT Range: > 256

[Model with composite functions](#)

HSF-BF.A.1

[Evaluate logarithms: change of base rule](#)

HSF-LE.A.4

RIT Range: 192-202

[Math patterns 1](#)

3.OA.D.9

[Patterns with even and odd](#)

3.OA.D.9

RIT Range: 203-212

[Math patterns 2](#)

4.OA.C.5

RIT Range: 213-219

[Coordinate plane word problems \(quadrant 1 - challenging\)](#)

5.G.A.2

[Coordinate plane word problems \(quadrant 1\)](#)

5.G.A.2

[Graph points](#)

5.G.A.2

[Identify coordinates](#)

5.G.A.2

[Identify points](#)

5.G.A.2

[Interpret relationships between patterns](#)

5.OA.B.3

RIT Range: 228-231

[Complete solutions to 2-variable equations](#)

8.F.A.1

[Linear equations in any form](#)

8.F.A.1 | 8.F.A.3 | 8.F.B.4 | HSF-LE.A.2

[Slope-intercept equation from graph](#)

8.F.A.1 | 8.F.A.3 | 8.F.B.4 | HSF-LE.A.2

[Slope-intercept from two points](#)

8.F.A.1 | 8.F.A.3 | 8.F.B.4 | HSF-LE.A.2

[Graph from slope-intercept form](#)

8.F.A.1 | 8.F.A.3 | HSF-IF.C.7

[Function rules from equations](#)

8.F.A.1 | HSF-IF.A.1

[Recognize functions from graphs](#)

8.F.A.1 | HSF-IF.A.1

[Recognize functions from tables](#)

8.F.A.1 | HSF-IF.A.1

Operations and Algebraic Thinking

Use Functions to Model Relationships

Standards Alignment

RIT Range: 228-231

Evaluate function expressions	8.F.A.1 HSF-IF.A.1 HSF-IF.A.2
Function inputs & outputs: equation	8.F.A.1 HSF-IF.A.1 HSF-IF.A.2
Domain and range from graph	8.F.A.1 HSF-IF.A.1 HSF-IF.B.5
Evaluate functions	8.F.A.1 HSF-IF.A.2
Function notation word problems	8.F.A.1 HSF-IF.A.2
Determine the domain of functions	8.F.A.1 HSF-IF.B.5
Function domain word problems	8.F.A.1 HSF-IF.B.5
Graph from linear standard form	8.F.A.1 HSF-IF.C.7
Intercepts from a graph	8.F.A.1 HSF-IF.C.7
Intercepts from a table	8.F.A.1 HSF-IF.C.7
Compare linear functions	8.F.A.2 HSF-IF.C.9
Linear & nonlinear functions	8.F.A.3
Intercepts from an equation	8.F.A.3 HSF-IF.C.7
Ordered pair solutions to linear equations	8.F.B.4
Slope from two points	8.F.B.4 HSF-IF.C.7
Slope from equation	8.F.B.4 HSF-IF.C.7 HSF-IF.C.8
Slope-intercept intro	8.F.B.4 HSF-IF.C.7 HSF-LE.A.2
Slope from graph	8.F.B.4 HSF-LE.A.2
Interpreting graphs of functions	8.F.B.5
Increasing and decreasing intervals	8.F.B.5 HSF-IF.C.7
Relative maxima and minima	8.F.B.5 HSF-IF.C.7

RIT Range: 232-245

Linear equations in any form	8.F.A.1 8.F.A.3 8.F.B.4 HSF-LE.A.2
Slope-intercept equation from graph	8.F.A.1 8.F.A.3 8.F.B.4 HSF-LE.A.2

Operations and Algebraic Thinking

Use Functions to Model Relationships

Standards Alignment

RIT Range: 232-245

Slope-intercept from two points	8.F.A.1 8.F.A.3 8.F.B.4 HSF-LE.A.2
Graph from slope-intercept form	8.F.A.1 8.F.A.3 HSF-IF.C.7
Function rules from equations	8.F.A.1 HSF-IF.A.1
Recognize functions from graphs	8.F.A.1 HSF-IF.A.1
Recognize functions from tables	8.F.A.1 HSF-IF.A.1
Evaluate function expressions	8.F.A.1 HSF-IF.A.1 HSF-IF.A.2
Function inputs & outputs: equation	8.F.A.1 HSF-IF.A.1 HSF-IF.A.2
Domain and range from graph	8.F.A.1 HSF-IF.A.1 HSF-IF.B.5
Evaluate functions	8.F.A.1 HSF-IF.A.2
Function notation word problems	8.F.A.1 HSF-IF.A.2
Determine the domain of functions	8.F.A.1 HSF-IF.B.5
Function domain word problems	8.F.A.1 HSF-IF.B.5
Graph from linear standard form	8.F.A.1 HSF-IF.C.7
Intercepts from a graph	8.F.A.1 HSF-IF.C.7
Intercepts from a table	8.F.A.1 HSF-IF.C.7
Compare linear functions	8.F.A.2 HSF-IF.C.9
Intercepts from an equation	8.F.A.3 HSF-IF.C.7
Slope from two points	8.F.B.4 HSF-IF.C.7
Slope from equation	8.F.B.4 HSF-IF.C.7 HSF-IF.C.8
Slope-intercept intro	8.F.B.4 HSF-IF.C.7 HSF-LE.A.2
Slope from graph	8.F.B.4 HSF-LE.A.2
Increasing and decreasing intervals	8.F.B.5 HSF-IF.C.7
Sequences word problems	HSF-BF.A.1 HSF-BF.A.2 HSF-LE.A.1 HSF-LE.A.2
Linear models word problems	HSF-BF.A.1 HSF-IF.B.4 HSF-LE.A.2 HSF-LE.B.5

Operations and Algebraic Thinking

Use Functions to Model Relationships

Standards Alignment

RIT Range: 232-245

Construct exponential models	HSF-BF.A.1 HSF-LE.A.2
Write exponential functions	HSF-BF.A.1 HSF-LE.A.2
Writing linear functions word problems	HSF-BF.A.1 HSF-LE.A.2
Converting recursive & explicit forms of arithmetic sequences	HSF-BF.A.2
Converting recursive & explicit forms of geometric sequences	HSF-BF.A.2
Explicit formulas for arithmetic sequences	HSF-BF.A.2 HSF-LE.A.2
Explicit formulas for geometric sequences	HSF-BF.A.2 HSF-LE.A.2
Recursive formulas for arithmetic sequences	HSF-BF.A.2 HSF-LE.A.2
Recursive formulas for geometric sequences	HSF-BF.A.2 HSF-LE.A.2
Graphs of exponential functions	HSF-BF.B.3 HSF-IF.C.7
Domain of advanced functions	HSF-IF.A.1
Range of quadratic functions	HSF-IF.A.1
Evaluate functions from their graph	HSF-IF.A.1 HSF-IF.A.2
Function inputs & outputs: graph	HSF-IF.A.1 HSF-IF.A.2
Evaluate sequences in recursive form	HSF-IF.A.2
Use arithmetic sequence formulas	HSF-IF.A.2
Use geometric sequence formulas	HSF-IF.A.2
Interpret basic exponential functions: graphs & tables	HSF-IF.B.4
Linear equations word problems: graphs	HSF-IF.B.4
Linear equations word problems: tables	HSF-IF.B.4
Quadratic word problems (standard form)	HSF-IF.B.4 HSF-IF.C.8
Comparing linear functions word problem	HSF-IF.B.4 HSF-IF.C.9 HSF-LE.B.5
Graph quadratics in all forms	HSF-IF.C.7
Graph quadratics in factored form	HSF-IF.C.7
Graph quadratics in standard form	HSF-IF.C.7

Operations and Algebraic Thinking

Use Functions to Model Relationships

Standards Alignment

RIT Range: 232-245

Graph quadratics in vertex form	HSF-IF.C.7
Graphing exponential growth & decay	HSF-IF.C.7
Graphing linear functions word problems	HSF-IF.C.7
Positive and negative intervals	HSF-IF.C.7
Horizontal & vertical lines	HSF-IF.C.7 HSF-LE.A.2
Completing the square	HSF-IF.C.8
Completing the square (intermediate)	HSF-IF.C.8
Completing the square (intro)	HSF-IF.C.8
Convert linear equations to standard form	HSF-IF.C.8
Difference of squares	HSF-IF.C.8
Difference of squares intro	HSF-IF.C.8
Factor quadratics by grouping	HSF-IF.C.8
Factoring quadratics intro	HSF-IF.C.8
Features of quadratic functions	HSF-IF.C.8
Features of quadratic functions: strategy	HSF-IF.C.8
Perfect squares	HSF-IF.C.8
Rewrite exponential expressions	HSF-IF.C.8
Solve equations using structure	HSF-IF.C.8
Solve quadratics by factoring	HSF-IF.C.8
Solve quadratics by factoring (intro)	HSF-IF.C.8
Compare features of functions	HSF-IF.C.8 HSF-IF.C.9
Interpret change in exponential models	HSF-IF.C.8 HSF-LE.B.5
Interpret change in exponential models: changing units	HSF-IF.C.8 HSF-LE.B.5
Interpret change in exponential models: with manipulation	HSF-IF.C.8 HSF-LE.B.5
Interpret time in exponential models	HSF-IF.C.8 HSF-LE.B.5

Operations and Algebraic Thinking

Use Functions to Model Relationships

Standards Alignment

RIT Range: 232-245

Compare quadratic functions	HSF-IF.C.9
Exponential vs. linear models	HSF-LE.A.1
Linear vs. exponential growth: from data	HSF-LE.A.1
Exponential functions from tables & graphs	HSF-LE.A.2
Point-slope form	HSF-LE.A.2
Exponential vs. linear growth over time	HSF-LE.A.3
Linear equations word problems	HSF-LE.B.5

RIT Range: 246-255

Relative maxima and minima	8.F.B.5 HSF-IF.C.7
Model with function combination	HSF-BF.A.1
Modeling with sinusoidal functions	HSF-BF.A.1 HSF-TF.B.5
Even & odd functions	HSF-BF.B.3
Even & odd polynomials	HSF-BF.B.3
Shift functions	HSF-BF.B.3
Transforming functions	HSF-BF.B.3
Graph sinusoidal functions	HSF-BF.B.3 HSF-IF.C.7
Graphs of logarithmic functions	HSF-BF.B.3 HSF-IF.C.7
Radical functions & their graphs	HSF-BF.B.3 HSF-IF.C.7
Construct sinusoidal functions	HSF-BF.B.3 HSF-TF.B.5
Domain of advanced piecewise functions	HSF-IF.A.1
Domain & range of piecewise functions	HSF-IF.A.1 HSF-IF.B.5
Evaluate piecewise functions	HSF-IF.A.2 HSF-IF.C.7
Evaluate step functions	HSF-IF.A.2 HSF-IF.C.7
End behavior of algebraic models	HSF-IF.B.4

Operations and Algebraic Thinking

Use Functions to Model Relationships

Standards Alignment

RIT Range: 246-255

Graph interpretation word problems	HSF-IF.B.4
Periodicity of algebraic models	HSF-IF.B.4
Average rate of change	HSF-IF.B.6
Average rate of change word problems	HSF-IF.B.6
Average rate of change: graphs & tables	HSF-IF.B.6
Absolute maxima and minima	HSF-IF.C.7
Amplitude of sinusoidal functions from equation	HSF-IF.C.7
Amplitude of sinusoidal functions from graph	HSF-IF.C.7
Analyze vertical asymptotes of rational functions	HSF-IF.C.7
End behavior of polynomials	HSF-IF.C.7
End behavior of rational functions	HSF-IF.C.7
Graph absolute value functions	HSF-IF.C.7
Graphs of nonlinear piecewise functions	HSF-IF.C.7
Graphs of rational functions	HSF-IF.C.7
Midline of sinusoidal functions from equation	HSF-IF.C.7
Midline of sinusoidal functions from graph	HSF-IF.C.7
Period of sinusoidal functions from equation	HSF-IF.C.7
Period of sinusoidal functions from graph	HSF-IF.C.7
Piecewise functions graphs	HSF-IF.C.7
Positive & negative intervals of polynomials	HSF-IF.C.7
Rational function points of discontinuity	HSF-IF.C.7
Zeros of polynomials & their graphs	HSF-IF.C.7 HSF-IF.C.8
Equivalent forms of exponential expressions	HSF-IF.C.8
Factor polynomials: quadratic methods	HSF-IF.C.8
Factor polynomials: quadratic methods (challenge)	HSF-IF.C.8

Operations and Algebraic Thinking

Use Functions to Model Relationships

Standards Alignment

RIT Range: 246-255

[Factor polynomials: special product forms](#)

HSF-IF.C.8

[Find zeros of polynomials](#)

HSF-IF.C.8

[Exponential model word problems](#)

HSF-LE.A.4

[Solve exponential equations using logarithms: base-10 and base-e](#)

HSF-LE.A.4

[Solve exponential equations using logarithms: base-2 and other bases](#)

HSF-LE.A.4

[Modeling with sinusoidal functions: phase shift](#)

HSF-TF.B.5

[Use the Pythagorean identity](#)

HSF-TF.C.8

Statistics and Probability

Interpreting Categorical and Quantitative Data

Standards Alignment

RIT Range: < 160

[Compare numbers of objects 2](#)

K.MD.B.3

RIT Range: 161-178

[Solve problems with bar graphs 1](#)

1.MD.C.4

RIT Range: 179-191

[Solve problems with bar graphs 2](#)

2.MD.D.10

[Solve problems with picture graphs 1](#)

2.MD.D.10

[Make bar graphs 1](#)

2.MD.D.9

[Make line plots](#)

2.MD.D.9

[Solve problems with line plots](#)

2.MD.D.9

RIT Range: 192-202

[Create bar graphs](#)

3.MD.B.3

[Create picture graphs \(picture more than 1\)](#)

3.MD.B.3

[Read bar graphs and solve 1-step problems](#)

3.MD.B.3

[Read bar graphs and solve 2 step problems](#)

3.MD.B.3

[Read picture graphs](#)

3.MD.B.3

[Read picture graphs \(multi-step problems\)](#)

3.MD.B.3

[Graph data on line plots](#)

3.MD.B.4

[Read line plots \(data with fractions\)](#)

3.MD.B.4

RIT Range: 203-212

[Interpret dot plots with fractions 1](#)

4.MD.B.4

RIT Range: 213-219

[Interpret dot plots with fraction operations](#)

5.MD.B.2

Statistics and Probability

Interpreting Categorical and Quantitative Data

Standards Alignment

RIT Range: 220-223

Statistical questions	6.SP.A.1
Clusters, gaps, peaks, & outliers	6.SP.A.2
Shape of distributions	6.SP.A.2
Reading box plots	6.SP.A.2 6.SP.B.4 6.SP.B.5
Reading dot plots & frequency tables	6.SP.A.3 6.SP.B.4 6.SP.B.5
Data set warm-up	6.SP.A.3 6.SP.B.5
Effects of shifting, adding, & removing a data point	6.SP.A.3 6.SP.B.5
Create histograms	6.SP.B.4
Creating box plots	6.SP.B.4
Creating dot plots	6.SP.B.4
Creating frequency tables	6.SP.B.4
Calculating the mean: data displays	6.SP.B.4 6.SP.B.5
Calculating the median: data displays	6.SP.B.4 6.SP.B.5
Comparing data displays	6.SP.B.4 6.SP.B.5
Read histograms	6.SP.B.4 6.SP.B.5
Calculating the mean	6.SP.B.5
Calculating the median	6.SP.B.5
Interpreting quartiles	6.SP.B.5
Interquartile range (IQR)	6.SP.B.5
Median & range puzzlers	6.SP.B.5
Missing value given the mean	6.SP.B.5

RIT Range: 224-227

Comparing distributions	7.SP.B.3 7.SP.B.4
---	---------------------

Statistics and Probability

Interpreting Categorical and Quantitative Data

Standards Alignment

RIT Range: 228-231

Constructing scatter plots	8.SP.A.1
Describing trends in scatter plots	8.SP.A.1
Making good scatter plots	8.SP.A.1
Positive and negative linear correlations from scatter plots	8.SP.A.1
Eyeballing the line of best fit	8.SP.A.2
Estimating equations of lines of best fit, and using them to make predictions	8.SP.A.3
Interpreting slope and y-intercept of lines of best fit	8.SP.A.3
Estimating slope of line of best fit	8.SP.A.3 HSS-ID.B.6
Interpreting two-way tables	8.SP.A.4
Reading two-way frequency tables	8.SP.A.4
Reading two-way relative frequency tables	8.SP.A.4
Two-way frequency tables	8.SP.A.4
Two-way relative frequency tables	8.SP.A.4

RIT Range: 232-255

Estimating slope of line of best fit	8.SP.A.3 HSS-ID.B.6
Comparing data distributions	HSS-ID.A.1 HSS-ID.A.2 HSS-ID.A.3
Standard deviation of a population	HSS-ID.A.2
Empirical rule	HSS-ID.A.4
Z-scores 1	HSS-ID.A.4
Z-scores 2	HSS-ID.A.4
Z-scores 3	HSS-ID.A.4
Trends in categorical data	HSS-ID.B.5
Fitting quadratic and exponential functions to scatter plots	HSS-ID.B.6
Correlation coefficient intuition	HSS-ID.C.8

Statistics and Probability

Interpreting Categorical and Quantitative Data

Standards Alignment

RIT Range: 232-255

[Types of statistical studies](#)

HSS-ID.C.9

Statistics and Probability

Using Sampling and Probability to Make Decisions

Standards Alignment

RIT Range: 224-227

[Making inferences from random samples](#)

7.SP.A.1 | 7.SP.A.2

[Valid claims](#)

7.SP.A.1 | 7.SP.A.2

[Probability models](#)

7.SP.C.5 | 7.SP.C.6 | 7.SP.C.7

[Experimental probability](#)

7.SP.C.6

[Making predictions with probability](#)

7.SP.C.6 | 7.SP.C.7

[Simple probability](#)

7.SP.C.7

[Probabilities of compound events](#)

7.SP.C.8

[Sample spaces for compound events](#)

7.SP.C.8

[The counting principle](#)

7.SP.C.8

RIT Range: 232-255

[Basic set notation](#)

HSS-CP.A.1

[Subsets of sample spaces](#)

HSS-CP.A.1

[Dependent and independent events](#)

HSS-CP.A.2 | HSS-CP.A.3

[Trends in categorical data](#)

HSS-CP.A.4 | HSS-CP.A.5 | HSS-CP.B.6

[Dependent probability](#)

HSS-CP.B.6

[Adding probabilities](#)

HSS-CP.B.7

[Simple hypothesis testing](#)

HSS-IC.A.2

[Types of statistical studies](#)

HSS-IC.B.3 | HSS-IC.B.6

[Hypothesis testing in experiments](#)

HSS-IC.B.5

The Real and Complex Number Systems

Extend and Use Properties

Standards Alignment

RIT Range: < 160

[Compare numbers of objects 1](#)

K.CC.C.6

RIT Range: 161-178

[Halves and fourths](#)

1.G.A.3

[2-digit place value challenge](#)

1.NBT.B.2

[Groups of ten objects](#)

1.NBT.B.2

[Compare 2-digit numbers](#)

1.NBT.B.3

[Compare 2-digit numbers 2](#)

1.NBT.B.3

RIT Range: 179-191

[Equal parts of circles and rectangles](#)

2.G.A.3

[Hundreds, tens, and ones](#)

2.NBT.A.1

[3-digit place value challenge](#)

2.NBT.A.3

[Compare 3-digit numbers](#)

2.NBT.A.4

RIT Range: 192-202

[Cut shapes into equal parts](#)

3.G.A.2 | 3.NF.A.1

[Identify unit fractions](#)

3.G.A.2 | 3.NF.A.1

[Identify numerators and denominators](#)

3.NF.A.1

[Recognize fractions 1](#)

3.NF.A.1

[Recognize fractions 2](#)

3.NF.A.1

[Find 1 on the number line](#)

3.NF.A.2

[Fractions on the number line](#)

3.NF.A.2

[Unit fractions on the number line](#)

3.NF.A.2

[Compare fractions of different wholes](#)

3.NF.A.3

[Compare fractions with the same denominator](#)

3.NF.A.3

[Compare fractions with the same numerator](#)

3.NF.A.3

The Real and Complex Number Systems

Extend and Use Properties

Standards Alignment

RIT Range: 192-202

Compare fractions with the same numerator or denominator	3.NF.A.3
Equivalent fraction models	3.NF.A.3
Equivalent fractions on the number line	3.NF.A.3
Visually compare fractions 1	3.NF.A.3
Write fractions as whole numbers	3.NF.A.3

RIT Range: 203-212

Creating largest or smallest number	4.NBT.A.1
Divide whole numbers by 10	4.NBT.A.1
Multiply and divide by 10	4.NBT.A.1
Multiply whole numbers by 10	4.NBT.A.1
Place value when multiplying and dividing by 10	4.NBT.A.1
Compare multi-digit numbers	4.NBT.A.2
Compare multi-digit numbers word problems	4.NBT.A.2
Compare numbers: place value challenge	4.NBT.A.2
Intro to place value	4.NBT.A.2
Regroup whole numbers	4.NBT.A.2
Whole number place value challenge	4.NBT.A.2
Write numbers in written form	4.NBT.A.2
Write whole numbers in expanded form	4.NBT.A.2
Equivalent fractions	4.NF.A.1
Equivalent fractions (fraction models)	4.NF.A.1
Common denominators	4.NF.A.2
Compare fractions and mixed numbers	4.NF.A.2
Compare fractions with different numerators and denominators	4.NF.A.2

The Real and Complex Number Systems

Extend and Use Properties

Standards Alignment

RIT Range: 203-212

Equivalent fractions and different wholes	4.NF.A.2
Order fractions	4.NF.A.2
Visually compare fractions 2	4.NF.A.2
Rewrite mixed numbers and improper fractions	4.NF.B.3
Decompose fractions with denominators of 100	4.NF.C.5
Decimals on the number line: hundredths	4.NF.C.6
Decimals on the number line: tenths	4.NF.C.6
Compare decimals (tenths and hundredths)	4.NF.C.7
Compare decimals and fractions	4.NF.C.7
Compare decimals visually	4.NF.C.7

RIT Range: 213-219

Graph points	5.G.A.1
Identify coordinates	5.G.A.1
Identify points	5.G.A.1
Compare decimal place value	5.NBT.A.1
Value of a digit	5.NBT.A.1
Understanding moving the decimal	5.NBT.A.2
Compare decimals challenge	5.NBT.A.3
Compare decimals through thousandths	5.NBT.A.3
Compare decimals word problems	5.NBT.A.3
Decimals in expanded form	5.NBT.A.3
Decimals in written form	5.NBT.A.3
Order decimals	5.NBT.A.3
Place value names	5.NBT.A.3

The Real and Complex Number Systems

Extend and Use Properties

Standards Alignment

RIT Range: 213-219

[Regroup decimals](#)

5.NBT.A.3

[Fractions as division](#)

5.NF.B.3

RIT Range: 220-223

[Interpreting negative numbers](#)

6.NS.C.5

[Missing numbers on the number line](#)

6.NS.C.6

[Negative decimals on the number line](#)

6.NS.C.6

[Negative numbers on the number line](#)

6.NS.C.6

[Negative symbol as opposite](#)

6.NS.C.6

[Number opposites](#)

6.NS.C.6

[Number opposites challenge](#)

6.NS.C.6

[Points on the coordinate plane](#)

6.NS.C.6

[Quadrants on the coordinate plane](#)

6.NS.C.6

[Rational numbers on the number line](#)

6.NS.C.6

[Coordinate plane problems in all four quadrants](#)

6.NS.C.6 | 6.NS.C.8

[Distance between points: vertical or horizontal](#)

6.NS.C.6 | 6.NS.C.8

[Reflecting points in the coordinate plane](#)

6.NS.C.6 | 6.NS.C.8

[Compare and order absolute values](#)

6.NS.C.7

[Comparing absolute values challenge](#)

6.NS.C.7

[Finding absolute values](#)

6.NS.C.7

[Interpreting absolute value](#)

6.NS.C.7

[Negative numbers, variables, number line](#)

6.NS.C.7

[Ordering negative numbers](#)

6.NS.C.7

[Ordering rational numbers](#)

6.NS.C.7

[Ordering small negative numbers](#)

6.NS.C.7

The Real and Complex Number Systems

Extend and Use Properties

Standards Alignment

RIT Range: 220-223

[Writing numerical inequalities](#)

6.NS.C.7

RIT Range: 228-231

[Classify numbers](#)

8.NS.A.1

[Classify numbers: rational & irrational](#)

8.NS.A.1

[Converting multi-digit repeating decimals to fractions](#)

8.NS.A.1

[Converting repeating decimals to fractions 1](#)

8.NS.A.1

[Writing fractions as repeating decimals](#)

8.NS.A.1

[Approximating square roots](#)

8.NS.A.2

[Comparing irrational numbers](#)

8.NS.A.2

[Comparing irrational numbers with a calculator](#)

8.NS.A.2

RIT Range: 232-245

[4th & 5th roots](#)

HSN-RN.A.2

[Evaluate radical expressions challenge](#)

HSN-RN.A.2

[Fractional exponents](#)

HSN-RN.A.2

[Properties of exponents \(rational exponents\)](#)

HSN-RN.A.2

[Properties of exponents challenge \(rational exponents\)](#)

HSN-RN.A.2

[Rational exponents challenge](#)

HSN-RN.A.2

[Simplify square roots](#)

HSN-RN.A.2

[Simplify square-root expressions](#)

HSN-RN.A.2

[Simplify square-roots \(variables\)](#)

HSN-RN.A.2

[Unit-fraction exponents](#)

HSN-RN.A.2

[Rational vs. irrational expressions](#)

HSN-RN.B.3

The Real and Complex Number Systems

Perform Operations

Standards Alignment

RIT Range: < 160

Count tens	K.CC.A.1
Numbers to 100	K.CC.A.1
Add within 10	K.OA.A.1
Subtract within 10	K.OA.A.1
Addition word problems within 10	K.OA.A.2
Subtraction word problems within 10	K.OA.A.2

RIT Range: 161-178

Numbers to 120	1.NBT.A.1
Add 1s or 10s (no regrouping)	1.NBT.C.4
Add 2-digit numbers (no regrouping)	1.NBT.C.4
Break apart 2-digit addition problems	1.NBT.C.4
Regroup when adding 1-digit numbers	1.NBT.C.4
Add 1 or 10	1.NBT.C.4 1.NBT.C.5
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.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
Add 3 numbers	1.OA.A.2
Add within 20	1.OA.C.6

RIT Range: 179-191

Count money (U.S.)	2.MD.C.8 2.NBT.A.2
Skip-count by 10s	2.NBT.A.2
Skip-count by 5s	2.NBT.A.2

The Real and Complex Number Systems

Perform Operations

Standards Alignment

RIT Range: 179-191

Skip-counting by 100s	2.NBT.A.2
Regrouping: two-digit number minus one-digit number	2.NBT.A.4
Add 2-digit numbers by making tens	2.NBT.B.5
Add 2-digit numbers by making tens 2	2.NBT.B.5
Add within 100	2.NBT.B.5
Subtract 1 or 10	2.NBT.B.5
Subtract 2-digit numbers (no regrouping)	2.NBT.B.5
Subtract within 100	2.NBT.B.5
Subtract within 20	2.NBT.B.5
Subtracting 1s or 10s (no regrouping)	2.NBT.B.5
Add 10s and 100s (no regrouping)	2.NBT.B.7
Add 2- and 3-digit numbers (no regrouping)	2.NBT.B.7
Add and subtract on a number line	2.NBT.B.7
Add and subtract using a number line	2.NBT.B.7
Select strategies for adding within 100	2.NBT.B.7
Subtract 10s and 100s (no regrouping)	2.NBT.B.7
Subtract 2- and 3-digit numbers (no regrouping)	2.NBT.B.7
Add using groups of 10 and 100	2.NBT.B.7 3.NBT.A.2
Break apart 3-digit addition problems	2.NBT.B.7 3.NBT.A.2
Estimate to add and subtract multi-digit whole numbers	2.NBT.B.7 3.NBT.A.2
Add and subtract within 100 word problems 1	2.OA.A.1
Add and subtract within 100 word problems 2	2.OA.A.1
Add and subtract within 100 word problems 3	2.OA.A.1
Challenging add and subtract word problems (within 100)	2.OA.A.1
Find the missing number (add and subtract within 100)	2.OA.A.1

The Real and Complex Number Systems

Perform Operations

Standards Alignment

RIT Range: 179-191

[Length word problems](#)

2.OA.A.1

[Repeated addition](#)

2.OA.C.4

RIT Range: 192-202

[Add using groups of 10 and 100](#)

2.NBT.B.7 | 3.NBT.A.2

[Break apart 3-digit addition problems](#)

2.NBT.B.7 | 3.NBT.A.2

[Estimate to add and subtract multi-digit whole numbers](#)

2.NBT.B.7 | 3.NBT.A.2

[Round to nearest 10 or 100](#)

3.NBT.A.1

[Round to nearest 10 or 100 on the number line](#)

3.NBT.A.1

[Rounding challenge](#)

3.NBT.A.1

[Add within 1000](#)

3.NBT.A.2

[Subtract within 1000](#)

3.NBT.A.2

[Multiply by tens](#)

3.NBT.A.3

[Multiply by tens word problems](#)

3.NBT.A.3

[Meaning of multiplication](#)

3.OA.A.1

[Divide with visuals](#)

3.OA.A.2

[Meaning of division](#)

3.OA.A.2

[Multiplication and division word problems \(within 100\)](#)

3.OA.A.3

[Relate division to multiplication word problems](#)

3.OA.A.3

[Associative property of multiplication](#)

3.OA.B.5

[Relate division to multiplication](#)

3.OA.B.6

[Basic division](#)

3.OA.C.7

[Basic multiplication](#)

3.OA.C.7

[Divide by 1](#)

3.OA.C.7

[Divide by 10](#)

3.OA.C.7

The Real and Complex Number Systems

Perform Operations

Standards Alignment

RIT Range: 192-202

Divide by 2	3.OA.C.7
Divide by 3	3.OA.C.7
Divide by 4	3.OA.C.7
Divide by 5	3.OA.C.7
Divide by 6	3.OA.C.7
Divide by 7	3.OA.C.7
Divide by 8	3.OA.C.7
Divide by 9	3.OA.C.7
Find missing divisors and dividends (1-digit division)	3.OA.C.7
Multiply by 0 or 1	3.OA.C.7
Multiply by 2	3.OA.C.7
Multiply by 3	3.OA.C.7
Multiply by 4	3.OA.C.7
Multiply by 5	3.OA.C.7
Multiply by 6	3.OA.C.7
Multiply by 7	3.OA.C.7
Multiply by 8	3.OA.C.7
Multiply by 9	3.OA.C.7
Whole numbers on the number line	3.OA.C.7
2-step word problems	3.OA.D.8

RIT Range: 203-212

Telling time word problems	4.MD.A.2
Round whole numbers	4.NBT.A.3
Round whole numbers challenge	4.NBT.A.3

The Real and Complex Number Systems

Perform Operations

Standards Alignment

RIT Range: 203-212

Round whole numbers word problems	4.NBT.A.3
Multi-digit addition	4.NBT.B.4
Multi-digit subtraction	4.NBT.B.4
Multiply 1-digit numbers by 10, 100, and 1000	4.NBT.B.5
Multiply 1-digit numbers by a multiple of 10, 100, and 1000	4.NBT.B.5
Multiply 2-, 3-, and 4-digits by 1-digit with area models	4.NBT.B.5
Multiply 2-digit numbers	4.NBT.B.5
Multiply 2-digits numbers with area models	4.NBT.B.5
Multiply using place value	4.NBT.B.5
Multiply with regrouping	4.NBT.B.5
Multiply without regrouping	4.NBT.B.5
Multiplying 10s	4.NBT.B.5
Cancel zeros when dividing	4.NBT.B.6
Divide by 1-digit numbers (no remainders)	4.NBT.B.6
Divide by 1-digit numbers (visual models)	4.NBT.B.6
Divide using place value	4.NBT.B.6
Divide with remainders	4.NBT.B.6
Divide with remainders (basic)	4.NBT.B.6
Intro to remainders	4.NBT.B.6
Quotients that are multiples of 10	4.NBT.B.6
Zeros in the dividend (no remainders)	4.NBT.B.6
Zeros in the quotient (no remainders)	4.NBT.B.6
Add and subtract fractions: word problems 1	4.NF.B.3
Add and subtract fractions: word problems 2	4.NF.B.3
Add and subtract mixed numbers 1	4.NF.B.3

The Real and Complex Number Systems

Perform Operations

Standards Alignment

RIT Range: 203-212

Add and subtract mixed numbers 2	4.NF.B.3
Add fractions with common denominators	4.NF.B.3
Decompose fractions	4.NF.B.3
Subtract fractions with common denominators	4.NF.B.3
Multiply fractions and whole numbers 2	4.NF.B.4
Multiply fractions and whole numbers 3	4.NF.B.4
Multiply unit fractions and whole numbers	4.NF.B.4
Multiply fractions and whole numbers 1	4.NF.B.4 5.NF.B.4
Multiply fractions and whole numbers word problems	4.NF.B.4 5.NF.B.6
Add fractions (denominators 10 & 100)	4.NF.C.5
Equivalent fractions 1 (denominators 10 & 100)	4.NF.C.5
Equivalent fractions 2 (denominators 10 & 100)	4.NF.C.5
Decimals in words	4.NF.C.6
Decimals on the number line: hundredths 0-0.1	4.NF.C.6
Decimals on the number line: tenths 0-1	4.NF.C.6
Place value for decimals greater than 1	4.NF.C.6
Rewrite decimals as fractions	4.NF.C.6
Rewrite fractions as decimals	4.NF.C.6
Write decimal numbers shown in grids	4.NF.C.6
Write number as a fraction and decimal	4.NF.C.6
Compare with multiplication	4.OA.A.1
Compare with multiplication word problems	4.OA.A.1
Multiplication and division word problems	4.OA.A.2
Multi-step estimation word problems	4.OA.A.3
Multi-step word problems with whole numbers	4.OA.A.3

The Real and Complex Number Systems

Perform Operations

Standards Alignment

RIT Range: 203-212

[Factor pairs](#)

4.OA.B.4

[Identify composite numbers](#)

4.OA.B.4

[Identify factors and multiples](#)

4.OA.B.4

[Identify prime numbers](#)

4.OA.B.4

RIT Range: 213-219

[Multiply fractions and whole numbers 1](#)

4.NF.B.4 | 5.NF.B.4

[Multiply fractions and whole numbers word problems](#)

4.NF.B.4 | 5.NF.B.6

[Multiply and divide by powers of 10](#)

5.NBT.A.2

[Multiply and divide decimals by 10](#)

5.NBT.A.2

[Multiply and divide decimals by 10, 100, and 1000](#)

5.NBT.A.2

[Multiply and divide whole numbers by 10, 100, and 1000](#)

5.NBT.A.2

[Round decimals](#)

5.NBT.A.4

[Round decimals challenge](#)

5.NBT.A.4

[Round decimals using a number line](#)

5.NBT.A.4

[Round decimals word problems](#)

5.NBT.A.4

[Multi-digit multiplication](#)

5.NBT.B.5

[Multiply by taking out factors of 10](#)

5.NBT.B.5

[Basic multi-digit division](#)

5.NBT.B.6

[Divide by taking out factors of 10](#)

5.NBT.B.6

[Add decimals 1](#)

5.NBT.B.7

[Add decimals 2](#)

5.NBT.B.7

[Add decimals 3](#)

5.NBT.B.7

[Add decimals 4](#)

5.NBT.B.7

[Add decimals 5](#)

5.NBT.B.7

The Real and Complex Number Systems

Perform Operations

Standards Alignment

RIT Range: 213-219

Add decimals 6	5.NBT.B.7
Divide decimals 1	5.NBT.B.7
Divide decimals 2	5.NBT.B.7
Divide decimals 3	5.NBT.B.7
Divide decimals 4	5.NBT.B.7
Divide decimals 5	5.NBT.B.7
Divide decimals 6	5.NBT.B.7
Divide decimals 7	5.NBT.B.7
Divide decimals 8	5.NBT.B.7
Dividing decimals 1	5.NBT.B.7
Dividing decimals 2	5.NBT.B.7
Estimating with adding decimals	5.NBT.B.7
Estimating with dividing decimals	5.NBT.B.7
Estimating with multiplying decimals	5.NBT.B.7
Estimating with subtracting decimals	5.NBT.B.7
Multiply decimals 1	5.NBT.B.7
Multiply decimals 2	5.NBT.B.7
Multiply decimals 3	5.NBT.B.7
Subtract decimals 1	5.NBT.B.7
Subtract decimals 2	5.NBT.B.7
Subtract decimals 3	5.NBT.B.7
Subtract decimals 4	5.NBT.B.7
Subtract decimals 5	5.NBT.B.7
Subtract decimals 6	5.NBT.B.7
Subtract decimals 7	5.NBT.B.7

The Real and Complex Number Systems

Perform Operations

Standards Alignment

RIT Range: 213-219

Subtract decimals 8	5.NBT.B.7
Adding decimals: hundredths	5.NBT.B.7 6.NS.B.3
Adding decimals: tenths	5.NBT.B.7 6.NS.B.3
Multiplying decimals 1 (standard algorithm)	5.NBT.B.7 6.NS.B.3
Subtracting decimals: hundredths	5.NBT.B.7 6.NS.B.3
Subtracting decimals: tenths	5.NBT.B.7 6.NS.B.3
Add and subtract fractions challenge	5.NF.A.1
Add and subtract mixed numbers with unlike denominators 1	5.NF.A.1
Add and subtract mixed numbers with unlike denominators 2	5.NF.A.1
Add fractions with unlike denominators	5.NF.A.1
Subtracting fractions with unlike denominators	5.NF.A.1
Visually add and subtract fractions	5.NF.A.1
Add and subtract fractions word problems	5.NF.A.2
Fractions as division word problems	5.NF.B.3
Area of rectangles with fraction side lengths	5.NF.B.4
Multiply fractions and whole numbers visually	5.NF.B.4
Multiply mixed numbers	5.NF.B.4
Multiplying fractions	5.NF.B.4
Multiplying fractions with visuals	5.NF.B.4
Multiply fractions word problems	5.NF.B.6
Dividing unit fractions by whole numbers	5.NF.B.7
Dividing unit fractions by whole numbers visually	5.NF.B.7
Dividing whole numbers by unit fractions	5.NF.B.7
Dividing whole numbers by unit fractions visually	5.NF.B.7

The Real and Complex Number Systems

Perform Operations

Standards Alignment

RIT Range: 220-223

Adding decimals: hundredths	5.NBT.B.7 6.NS.B.3
Adding decimals: tenths	5.NBT.B.7 6.NS.B.3
Multiplying decimals 1 (standard algorithm)	5.NBT.B.7 6.NS.B.3
Subtracting decimals: hundredths	5.NBT.B.7 6.NS.B.3
Subtracting decimals: tenths	5.NBT.B.7 6.NS.B.3
Divide whole numbers by fractions	6.NS.A.1
Dividing fractions	6.NS.A.1
Dividing fractions word problems	6.NS.A.1
Understanding dividing fractions by fractions	6.NS.A.1
Division by 2-digits	6.NS.B.2
Multi-digit division	6.NS.B.2
Adding & subtracting decimals word problems	6.NS.B.3
Adding decimals: thousandths	6.NS.B.3
Dividing decimals: hundredths	6.NS.B.3
Dividing decimals: ten thousandths	6.NS.B.3
Dividing whole numbers to get a decimal	6.NS.B.3
Multiplying decimals 2 (standard algorithm)	6.NS.B.3
Multiplying decimals 3 (standard algorithm)	6.NS.B.3
Subtracting decimals: thousandths	6.NS.B.3
GCF & LCM word problems	6.NS.B.4
Greatest common factor	6.NS.B.4
Least common multiple	6.NS.B.4

RIT Range: 224-227

Absolute value to find distance	7.NS.A.1
---	----------

The Real and Complex Number Systems

Perform Operations

Standards Alignment

RIT Range: 224-227

Absolute value to find distance challenge	7.NS.A.1
Adding & subtracting negative fractions	7.NS.A.1
Adding & subtracting negative numbers	7.NS.A.1
Adding & subtracting rational numbers	7.NS.A.1
Adding negative numbers	7.NS.A.1
Adding negative numbers on the number line	7.NS.A.1
Addition & subtraction: find the missing value	7.NS.A.1
Equivalent expressions with negative numbers	7.NS.A.1
Interpret negative number addition and subtraction expressions	7.NS.A.1
Number equations & number lines	7.NS.A.1
Ordering negative number expressions	7.NS.A.1
Signs of sums	7.NS.A.1
Substitution with negative numbers	7.NS.A.1
Subtracting negative numbers	7.NS.A.1
Understand subtraction as adding the opposite	7.NS.A.1
Exponents with integer bases	7.NS.A.1 7.NS.A.2
Order of operations with negative numbers	7.NS.A.1 7.NS.A.2
Interpreting negative number statements	7.NS.A.1 7.NS.A.3
Negative number addition and subtraction: word problems	7.NS.A.1 7.NS.A.3
Comparing rational numbers	7.NS.A.2
Converting fractions to decimals	7.NS.A.2
Dividing by zero	7.NS.A.2
Dividing mixed numbers with negatives	7.NS.A.2
Dividing positive and negative fractions	7.NS.A.2

The Real and Complex Number Systems

Perform Operations

Standards Alignment

RIT Range: 224-227

Equivalent expressions with negative numbers (multiplication and division)	7.NS.A.2
Exponents with negative fractional bases	7.NS.A.2
Multiplying & dividing negative numbers	7.NS.A.2
Multiplying & dividing negative numbers word problems	7.NS.A.2
Multiplying positive and negative fractions	7.NS.A.2
Negative signs in fractions	7.NS.A.2
Signs of expressions	7.NS.A.2
Signs of expressions challenge	7.NS.A.2
Simplify hairy fractions	7.NS.A.2 7.NS.A.3

RIT Range: 232-245

Interpret units in formulas	HSN-Q.A.1
Multiple units word problems	HSN-Q.A.1

RIT Range: 246-255

Classify complex numbers	HSN-CN.A.1
Parts of complex numbers	HSN-CN.A.1
Simplify roots of negative numbers	HSN-CN.A.1
Add & subtract complex numbers	HSN-CN.A.2
Multiply complex numbers	HSN-CN.A.2
Multiply complex numbers (basic)	HSN-CN.A.2
Powers of the imaginary unit	HSN-CN.A.2

The Real and Complex Number Systems

Ratios and Proportional Relationships

Standards Alignment

RIT Range: 203-212

Convert to smaller units (c, pt, qt, & gal)	4.MD.A.1
Convert to smaller units (g and kg)	4.MD.A.1
Convert to smaller units (in, ft, yd, & mi)	4.MD.A.1
Convert to smaller units (mL and L)	4.MD.A.1
Convert to smaller units (mm, cm, m, & km)	4.MD.A.1
Convert to smaller units (oz and lb)	4.MD.A.1
Convert to smaller units (sec, min, & hr)	4.MD.A.1
Convert money word problems	4.MD.A.2
Metric conversions word problems	4.MD.A.2
US customary conversion word problems	4.MD.A.2

RIT Range: 213-219

Convert units (metrics)	5.MD.A.1
Convert units (US customary)	5.MD.A.1
Convert units word problems (metric)	5.MD.A.1
Convert units word problems (US customary)	5.MD.A.1

RIT Range: 220-223

Basic ratios	6.RP.A.1
Comparing rates	6.RP.A.2 6.RP.A.3
Converting decimals to percents	6.RP.A.3
Converting percents & fractions	6.RP.A.3
Converting percents to decimals	6.RP.A.3
Finding percents	6.RP.A.3
Percent word problems	6.RP.A.3
Rate problems	6.RP.A.3

The Real and Complex Number Systems

Ratios and Proportional Relationships

Standards Alignment

RIT Range: 220-223

[Ratio tables](#)

6.RP.A.3

[Ratio word problems](#)

6.RP.A.3

[Proportion word problems](#)

6.RP.A.3 | 7.RP.A.3

RIT Range: 224-227

[Proportion word problems](#)

6.RP.A.3 | 7.RP.A.3

[Rates with fractions](#)

7.RP.A.1

[Interpreting graphs of proportional relationships](#)

7.RP.A.2

[Proportional relationships](#)

7.RP.A.2

[Proportional relationships: graphs](#)

7.RP.A.2

[Solving proportions](#)

7.RP.A.2

[Writing proportional equations](#)

7.RP.A.2

[Writing proportions](#)

7.RP.A.2

[Discount, tax, and tip word problems](#)

7.RP.A.3

[Markup and commission word problems](#)

7.RP.A.3

NWEA® is a not-for-profit organization that supports students and educators worldwide by providing assessment solutions, insightful reports, professional learning offerings, and research services. Visit NWEA.org to find out how NWEA can partner with you to help all kids learn.

© NWEA 2017.

© Copyright 2010 National Governors Association Center for Best Practices and Council of Chief State School Officers.

MAP is a registered trademark, and NWEA, MAP Growth, and Measuring What Matters are trademarks, of NWEA in the US and in other countries.

The names of other companies and their products mentioned are the trademarks of their respective owners.