MAP Growth Mathematics to Khan Academy

Khan Academy Practice Exercises Correlated to RIT

Common Core MAP Growth Math 2-5

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. 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.

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MAP Growth Mathematics
Khan Academy Practice Exercises Correlation
Common Core Math 2-5

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- Reason with Shapes, Attributes, & Coordinate Plane  Pg. 29
Operations and Algebraic Thinking

Represent and Solve Problems

RIT Range:  <160

Add within 10
Subtract within 10
Addition word problems within 10
Subtraction word problems within 10
Making small numbers in different ways
Make 10
Make 10 (grids and number bonds)
Making 5
Add within 5
Subtract within 5

RIT Range:  161-178

Addition and subtraction word problems 1
Addition and subtraction word problems 2
Word problems with "more" and "fewer"
Word problems with "more" and "fewer" 1
Word problems with "more" and "fewer" 2
Add 3 numbers
Relate addition and subtraction
Add within 20
Subtract within 20
Equal sign
Find missing number (add and subtract within 20)

RIT Range:  179-191

Add and subtract within 100 word problems 1
Add and subtract within 100 word problems 2
## Operations and Algebraic Thinking

### Represent and Solve Problems

**Standards Alignment**

<table>
<thead>
<tr>
<th>Standards</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.OA.A.1</td>
<td>Add and subtract within 100 word problems 3</td>
</tr>
<tr>
<td>2.OA.A.1</td>
<td>Challenging add and subtract word problems (within 100)</td>
</tr>
<tr>
<td>2.OA.A.1</td>
<td>Find the missing number (add and subtract within 100)</td>
</tr>
<tr>
<td>2.OA.A.1</td>
<td>Length word problems</td>
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<tr>
<td>2.OA.A.1</td>
<td>Solve problems with picture graphs 1</td>
</tr>
<tr>
<td>2.OA.C.4</td>
<td>Repeated addition</td>
</tr>
<tr>
<td>3.OA.A.1</td>
<td>Meaning of multiplication</td>
</tr>
<tr>
<td>3.OA.A.1</td>
<td>Multiply with arrays</td>
</tr>
<tr>
<td>3.OA.A.2</td>
<td>Divide with visuals</td>
</tr>
<tr>
<td>3.OA.A.2</td>
<td>Meaning of division</td>
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<tr>
<td>3.OA.A.3</td>
<td>Multiplication and division word problems (within 100)</td>
</tr>
<tr>
<td>3.OA.A.3</td>
<td>Relate division to multiplication word problems</td>
</tr>
<tr>
<td>3.OA.A.4</td>
<td>Letters and symbols in multiplication and division equations</td>
</tr>
<tr>
<td>3.OA.A.4</td>
<td>Basic multiplication</td>
</tr>
<tr>
<td>3.OA.A.4</td>
<td>Find missing divisors and dividends (1-digit division)</td>
</tr>
<tr>
<td>3.OA.A.4</td>
<td>Find missing factors (1-digit multiplication)</td>
</tr>
<tr>
<td>3.OA.B.5</td>
<td>Associative property of multiplication</td>
</tr>
<tr>
<td>3.OA.B.5</td>
<td>Commutative property of multiplication</td>
</tr>
<tr>
<td>3.OA.B.5</td>
<td>Distributive property of multiplication</td>
</tr>
<tr>
<td>3.OA.B.6</td>
<td>Relate division to multiplication</td>
</tr>
<tr>
<td>3.OA.C.7</td>
<td>Basic division</td>
</tr>
<tr>
<td>3.OA.C.7</td>
<td>Divide by 1</td>
</tr>
<tr>
<td>3.OA.C.7</td>
<td>Divide by 10</td>
</tr>
<tr>
<td>3.OA.C.7</td>
<td>Divide by 2</td>
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</tbody>
</table>
# Operations and Algebraic Thinking

**Represent and Solve Problems**

<table>
<thead>
<tr>
<th>RIT Range: 192-202</th>
<th>Standards Alignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Divide by 3</td>
<td>3.OA.C.7</td>
</tr>
<tr>
<td>Divide by 4</td>
<td>3.OA.C.7</td>
</tr>
<tr>
<td>Divide by 5</td>
<td>3.OA.C.7</td>
</tr>
<tr>
<td>Divide by 6</td>
<td>3.OA.C.7</td>
</tr>
<tr>
<td>Divide by 7</td>
<td>3.OA.C.7</td>
</tr>
<tr>
<td>Divide by 8</td>
<td>3.OA.C.7</td>
</tr>
<tr>
<td>Divide by 9</td>
<td>3.OA.C.7</td>
</tr>
<tr>
<td>Multiply by 0 or 1</td>
<td>3.OA.C.7</td>
</tr>
<tr>
<td>Multiply by 2</td>
<td>3.OA.C.7</td>
</tr>
<tr>
<td>Multiply by 3</td>
<td>3.OA.C.7</td>
</tr>
<tr>
<td>Multiply by 4</td>
<td>3.OA.C.7</td>
</tr>
<tr>
<td>Multiply by 5</td>
<td>3.OA.C.7</td>
</tr>
<tr>
<td>Multiply by 6</td>
<td>3.OA.C.7</td>
</tr>
<tr>
<td>Multiply by 7</td>
<td>3.OA.C.7</td>
</tr>
<tr>
<td>Multiply by 8</td>
<td>3.OA.C.7</td>
</tr>
<tr>
<td>Multiply by 9</td>
<td>3.OA.C.7</td>
</tr>
<tr>
<td>Relate repeated addition to multiplication</td>
<td>3.OA.C.7</td>
</tr>
<tr>
<td>Whole numbers on the number line</td>
<td>3.OA.C.7</td>
</tr>
<tr>
<td>2-step estimation word problems</td>
<td>3.OA.D.8</td>
</tr>
<tr>
<td>2-step word problems</td>
<td>3.OA.D.8</td>
</tr>
<tr>
<td>Represent 2-step word problems with equations</td>
<td>3.OA.D.8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RIT Range: 203-212</th>
<th>Standards Alignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compare with multiplication</td>
<td>4.OA.A.1</td>
</tr>
<tr>
<td>Compare with multiplication word problems</td>
<td>4.OA.A.1</td>
</tr>
<tr>
<td>Multiplication and division word problems</td>
<td>4.OA.A.2</td>
</tr>
</tbody>
</table>
Operations and Algebraic Thinking
Represent and Solve Problems

Standards Alignment

**RIT Range: 203-212**

- Multi-step estimation word problems [4.OA.A.3]
- 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**

- Evaluate expressions with parentheses [5.OA.A.1]
- Create expressions with parentheses [5.OA.A.2]
- Translate expressions with parentheses [5.OA.A.2]

**RIT Range: 220-223**

- Writing expressions word problems [6.EE.A.2]
- Distributive property with variables [6.EE.A.3]
- Testing solutions to inequalities [6.EE.B.5]
- Testing solutions to inequalities (basic) [6.EE.B.5]
- Identify equations from visual models (hanger diagrams) [6.EE.B.5 | 6.EE.B.7]
- Identify equations from visual models (tape diagrams) [6.EE.B.5 | 6.EE.B.7]
- Solve equations from visual models [6.EE.B.5 | 6.EE.B.7]
- 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.8]
- Inequalities word problems [6.EE.B.7 | 6.EE.B.8]
Operations and Algebraic Thinking
Represent and Solve Problems

RIT Range: 220-223
- Interpreting negative numbers

RIT Range: 224-227
- Interpreting linear expressions
- Find the mistake: two-step equations
- Interpret two-step equation word problems
- One-step inequalities
- Two-step equations word problems
- Two-step inequalities
- Two-step inequality word problems
- Interpreting negative number statements

Standards Alignment
- 6.NS.C.5
- 7.EE.A.2
- 7.EE.B.4
- 7.NS.A.3
Operations and Algebraic Thinking

Analyze Patterns and Relationships

Standards Alignment

RIT Range: 192-202

Math patterns 1

3.OA.D.9

Patterns in multiplication tables

3.OA.D.9

Patterns with even and odd

3.OA.D.9

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

Math patterns 2

4.OA.C.5

RIT Range: 213-219

Graphs of rules that relate 2 variables

5.OA.B.3

Identify points on a line

5.OA.B.3

Relationships between 2 patterns

5.OA.B.3

Tables from rules that relate 2 variables

5.OA.B.3

Write rules that relate 2 variables

5.OA.B.3

RIT Range: 220-223

Independent versus dependent variables

6.EE.C.9

Match equations to coordinates on a line

6.EE.C.9

Relationships between quantities in equations and graphs

6.EE.C.9

Tables from equations with 2 variables

6.EE.C.9

GCF & LCM word problems

6.NS.B.4

Greatest common factor

6.NS.B.4

Least common multiple

6.NS.B.4

Unit rates

6.RP.A.2

Comparing rates

6.RP.A.2 | 6.RP.A.3
<table>
<thead>
<tr>
<th>Operations and Algebraic Thinking</th>
<th>Standards Alignment</th>
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<td><strong>RIT Range: 220-223</strong></td>
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</tr>
<tr>
<td>Rate problems</td>
<td>6.RP.A.2</td>
</tr>
<tr>
<td>Create double number lines</td>
<td>6.RP.A.3</td>
</tr>
<tr>
<td>Equivalent ratio word problems</td>
<td>6.RP.A.3</td>
</tr>
<tr>
<td>Equivalent ratio word problems (basic)</td>
<td>6.RP.A.3</td>
</tr>
<tr>
<td>Equivalent ratios in the real world</td>
<td>6.RP.A.3</td>
</tr>
<tr>
<td>Ratio tables</td>
<td>6.RP.A.3</td>
</tr>
<tr>
<td>Ratios and units of measurement</td>
<td>6.RP.A.3</td>
</tr>
<tr>
<td>Ratios on coordinate plane</td>
<td>6.RP.A.3</td>
</tr>
<tr>
<td>Ratios with double number lines</td>
<td>6.RP.A.3</td>
</tr>
<tr>
<td>Ratios with tape diagrams</td>
<td>6.RP.A.3</td>
</tr>
<tr>
<td>Relate double numbers lines and ratio tables</td>
<td>6.RP.A.3</td>
</tr>
</tbody>
</table>

| **RIT Range: 224-227**            |                     |
| Rates with fractions              | 7.RP.A.1          |
## Number and Operations

### Understand Place Value, Counting, and Cardinality

**Standards Alignment**

<table>
<thead>
<tr>
<th>RIT Range: &lt;160</th>
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</thead>
<tbody>
<tr>
<td><strong>Count tens</strong></td>
<td>K.CC.A.1</td>
</tr>
<tr>
<td><strong>Numbers to 100</strong></td>
<td>K.CC.A.1</td>
</tr>
<tr>
<td><strong>Missing numbers</strong></td>
<td>K.CC.A.2</td>
</tr>
<tr>
<td><strong>Count in pictures</strong></td>
<td>K.CC.B.4</td>
</tr>
<tr>
<td><strong>Count objects 1</strong></td>
<td>K.CC.B.5</td>
</tr>
<tr>
<td><strong>Count objects 2</strong></td>
<td>K.CC.B.5</td>
</tr>
<tr>
<td><strong>Count with small numbers</strong></td>
<td>K.CC.B.5</td>
</tr>
<tr>
<td><strong>Compare numbers of objects 1</strong></td>
<td>K.CC.C.6</td>
</tr>
<tr>
<td><strong>Comparing numbers to 10</strong></td>
<td>K.CC.C.7</td>
</tr>
<tr>
<td><strong>Teen numbers</strong></td>
<td>K.NBT.A.1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RIT Range: 161-178</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Numbers to 120</strong></td>
<td>1.NBT.A.1</td>
</tr>
<tr>
<td><strong>2-digit place value challenge</strong></td>
<td>1.NBT.B.2</td>
</tr>
<tr>
<td><strong>Groups of ten objects</strong></td>
<td>1.NBT.B.2</td>
</tr>
<tr>
<td><strong>Compare 2-digit numbers</strong></td>
<td>1.NBT.B.3</td>
</tr>
<tr>
<td><strong>Compare 2-digit numbers 2</strong></td>
<td>1.NBT.B.3</td>
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<thead>
<tr>
<th>RIT Range: 179-191</th>
<th></th>
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</thead>
<tbody>
<tr>
<td><strong>Hundreds, tens, and ones</strong></td>
<td>2.NBT.A.1</td>
</tr>
<tr>
<td><strong>Count money (U.S.)</strong></td>
<td>2.NBT.A.2</td>
</tr>
<tr>
<td><strong>Skip-count by 10s</strong></td>
<td>2.NBT.A.2</td>
</tr>
<tr>
<td><strong>Skip-count by 5s</strong></td>
<td>2.NBT.A.2</td>
</tr>
<tr>
<td><strong>Skip-counting by 100s</strong></td>
<td>2.NBT.A.2</td>
</tr>
<tr>
<td><strong>3-digit place value challenge</strong></td>
<td>2.NBT.A.3</td>
</tr>
<tr>
<td><strong>Compare 3-digit numbers</strong></td>
<td>2.NBT.A.4</td>
</tr>
</tbody>
</table>
Number and Operations
Understand Place Value, Counting, and Cardinality

Standards Alignment

RIT Range: 192-202

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

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 blocks 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
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
Regroup whole numbers 4.NBT.A.2 | 5.NBT.A.1
Round whole numbers 4.NBT.A.3
Round whole numbers challenge 4.NBT.A.3
Round whole numbers word problems 4.NBT.A.3

RIT Range: 213-219

Regroup whole numbers 4.NBT.A.2 | 5.NBT.A.1
Compare decimal place value 5.NBT.A.1
Value of a digit 5.NBT.A.1
Number and Operations
Understand Place Value, Counting, and Cardinality

RIT Range: 213-219

- Multiply and divide by powers of 10
- Multiply and divide decimals by 10
- Multiply and divide decimals by 10, 100, and 1000
- Multiply and divide whole numbers by 10, 100, and 1000
- Powers of ten
- Understanding moving the decimal
- Compare decimals challenge
- Compare decimals through thousandths
- Compare decimals word problems
- Decimals in expanded form
- Decimals in written form
- Order decimals
- Place value names
- Regroup decimals
- Round decimals
- Round decimals challenge
- Round decimals using a number line
- Round decimals word problems

RIT Range: 220-223

- Missing numbers on the number line
- Negative numbers, variables, number line
- Ordering negative numbers

Standards Alignment

- 5.NBT.A.2
- 5.NBT.A.3
- 5.NBT.A.4
- 6.NS.C.6
- 6.NS.C.7
Number and Operations

Number and Operations in Base Ten

<table>
<thead>
<tr>
<th>RIT Range: 161-178</th>
<th>Standards Alignment</th>
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<tr>
<td>Add 1s or 10s (no regrouping)</td>
<td>1.NBT.C.4</td>
</tr>
<tr>
<td>Add 2-digit numbers (no regrouping)</td>
<td>1.NBT.C.4</td>
</tr>
<tr>
<td>Break apart 2-digit addition problems</td>
<td>1.NBT.C.4</td>
</tr>
<tr>
<td>Regroup when adding 1-digit numbers</td>
<td>1.NBT.C.4</td>
</tr>
<tr>
<td>Add 1 or 10</td>
<td>1.NBT.C.4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RIT Range: 179-191</th>
<th>Standards Alignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add 2-digit numbers by making tens</td>
<td>2.NBT.B.5</td>
</tr>
<tr>
<td>Add 2-digit numbers by making tens 2</td>
<td>2.NBT.B.5</td>
</tr>
<tr>
<td>Add within 100</td>
<td>2.NBT.B.5</td>
</tr>
<tr>
<td>Subtract 1 or 10</td>
<td>2.NBT.B.5</td>
</tr>
<tr>
<td>Subtract 2-digit numbers (no regrouping)</td>
<td>2.NBT.B.5</td>
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<tr>
<td>Subtract within 100</td>
<td>2.NBT.B.5</td>
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<tr>
<td>Subtract within 20</td>
<td>2.NBT.B.5</td>
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<tr>
<td>Subtracting 1s or 10s (no regrouping)</td>
<td>2.NBT.B.5</td>
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<tr>
<td>Add 10s and 100s (no regrouping)</td>
<td>2.NBT.B.7</td>
</tr>
<tr>
<td>Add 2- and 3-digit numbers (no regrouping)</td>
<td>2.NBT.B.7</td>
</tr>
<tr>
<td>Add and subtract on a number line</td>
<td>2.NBT.B.7</td>
</tr>
<tr>
<td>Add and subtract using a number line</td>
<td>2.NBT.B.7</td>
</tr>
<tr>
<td>Select strategies for adding within 100</td>
<td>2.NBT.B.7</td>
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<tr>
<td>Subtract 10s and 100s (no regrouping)</td>
<td>2.NBT.B.7</td>
</tr>
<tr>
<td>Subtract 2- and 3-digit numbers (no regrouping)</td>
<td>2.NBT.B.7</td>
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<tr>
<td>Add using groups of 10 and 100</td>
<td>2.NBT.B.7</td>
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<tr>
<td>Break apart 3-digit addition problems</td>
<td>2.NBT.B.7</td>
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<tr>
<td>Estimate to add and subtract multi-digit whole numbers</td>
<td>2.NBT.B.7</td>
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</table>
Number and Operations
Number and Operations in Base Ten

RIT Range: 192-202

Add using groups of 10 and 100
Break apart 3-digit addition problems
Estimate to add and subtract multi-digit whole numbers
Add within 1000
Subtract within 1000
Multiply by tens
Multiply by tens word problems

RIT Range: 203-212

Multi-digit addition
Multi-digit subtraction
Multiply 1-digit numbers by 10, 100, and 1000
Multiply 1-digit numbers by a multiple of 10, 100, and 1000
Multiply 2-, 3-, and 4-digits by 1-digit with area models
Multiply 2-digit numbers
Multiply 2-digit numbers with area models
Multiply using place value
Multiply with regrouping
Multiply without regrouping
Multiplying 10s
Cancel zeros when dividing
Divide by 1-digit numbers (no remainders)
Divide by 1-digit numbers (visual models)
Divide using place value
Divide with remainders
Divide with remainders (basic)
## Number and Operations

**Number and Operations in Base Ten**

### Standards Alignment

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<td><strong>Add decimals like 47.75+11.98</strong></td>
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Number and Operations
Number and Operations in Base Ten

Standards Alignment

RIT Range: 213-219

Divide whole numbers like 7÷5 to get a decimal
Divide whole numbers like 80÷200 to get a decimal
Estimating with adding decimals
Estimating with dividing decimals
Estimating with multiplying decimals
Estimating with subtracting decimals
Multiply decimals like 0.56x4
Multiply decimals like 0.6x0.4
Multiply decimals like 1.7x0.12
Multiply decimals visually
Subtract decimals like 0.6-0.43
Subtract decimals like 0.75-0.56
Subtract decimals like 0.9-0.7
Subtract decimals like 1.6-0.3
Subtract decimals like 15-7.45
Subtract decimals like 56.8-17.9
Subtract decimals like 67.89-6
Subtract decimals like 78.4-3
Subtract decimals visually
Multiplying decimals like 4x0.6 (standard algorithm)

RIT Range: 220-223

Multiplying decimals like 4x0.6 (standard algorithm)
Exponents
Exponents (basic)
Variable expressions with exponents
Number and Operations
Number and Operations in Base Ten

RIT Range: 220-223

- Division by 2-digits
- Multi-digit division
- Adding & subtracting decimals word problems
- Adding decimals: thousandths
- Dividing decimals: hundredths
- Dividing decimals: thousandths
- Dividing whole numbers like 56÷35 to get a decimal
- Multiplying decimals like 0.847x3.54 (standard algorithm)
- Multiplying decimals like 2.45x3.6 (standard algorithm)
- Subtracting decimals: thousandths

Standards Alignment
6.NS.B.2
6.NS.B.2
6.NS.B.3
6.NS.B.3
6.NS.B.3
6.NS.B.3
6.NS.B.3
6.NS.B.3
6.NS.B.3

RIT Range: 224-227

- Adding & subtracting negative numbers
- Adding negative numbers
- Adding negative numbers on the number line
- Addition & subtraction: find the missing value
- Interpret negative number addition and subtraction expressions
- Negative number addition and subtraction: word problems
- Number equations & number lines
- Subtracting negative numbers

Standards Alignment
7.NS.A.1
7.NS.A.1
7.NS.A.1
7.NS.A.1
7.NS.A.1
7.NS.A.1
7.NS.A.1
7.NS.A.1
### Number and Operations

#### Number and Operations - Fractions

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<td>Fractions on the number line</td>
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<tr>
<td>Compare fractions with the same denominator</td>
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<td>Compare fractions with the same numerator</td>
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**RIT Range: 203-212**

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<tr>
<td>Compare fractions with different numerators and denominators</td>
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<tr>
<td>Equivalent fractions and different wholes</td>
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<tr>
<td>Order fractions</td>
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RIT Range: 203-212

Visually compare fractions with unlike denominators

Add and subtract fractions word problems (same denominator)

Add and subtract mixed numbers (no regrouping)

Add and subtract mixed numbers (with regrouping)

Add and subtract mixed numbers word problems (like denominators)

Add fractions with common denominators

Decompose fractions

Rewrite mixed numbers and improper fractions

Subtract fractions with common denominators

Equivalent unit fraction and whole number multiplication expressions

Multiply fractions and whole numbers intuition

Multiply unit fractions and whole numbers

Multiply fractions and whole numbers

Multiply fractions and whole numbers

Multiply fractions and whole numbers word problems

Add fractions (denominators 10 & 100)

Decompose fractions with denominators of 100

Equivalent expressions with common denominators (denominators 10 & 100)

Equivalent fractions (denominators 10 & 100)

Equivalent fractions with fraction models (denominators 10 & 100)

Decimals in words

Decimals on the number line: hundredths

Decimals on the number line: hundredths 0-0.1

Decimals on the number line: tenths

Decimals on the number line: tenths 0-1
Number and Operations
Number and Operations - Fractions

Standards Alignment

RIT Range: 203-212

- Place value for decimals greater than 1
- Rewrite decimals as fractions
- Rewrite fractions as decimals (denominators of 10 & 100)
- Write decimal numbers shown in grids
- Write number as a fraction and decimal
- Compare decimals (tenths and hundredths)
- Compare decimals and fractions
- Compare decimals visually

RIT Range: 213-219

- Multiply fractions and whole numbers
- Interpret multiplying fraction and whole number word problems
- Multiply fractions and whole numbers word problems
- Add and subtract fractions challenge
- Add and subtract mixed numbers with unlike denominators (no regrouping)
- Add and subtract mixed numbers with unlike denominators (regrouping)
- Add fractions with unlike denominators
- Equivalent expressions with common denominators
- Subtracting fractions with unlike denominators
- Visually add and subtract fractions
- Add and subtract fractions word problems
- Fractions as division
- Fractions as division word problems
- Area of rectangles with fraction side lengths
- Multiply fractions and whole numbers visually
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<td><strong>Dividing whole numbers by unit fractions</strong></td>
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<td><strong>Dividing whole numbers by unit fractions visually</strong></td>
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Measurement and Data

Geometric Measurement and Problem Solving

Standards Alignment

RIT Range: <160

- **Compare size**
  - K.MD.A.2

RIT Range: 161-178

- **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

- **Measure lengths 2**
  - 2.MD.A.1
- **Estimate lengths**
  - 2.MD.A.3
- **Length word problems**
  - 2.MD.B.5
- **Add and subtract on the number line word problems**
  - 2.MD.B.6
- **Tell time with a labeled clock**
  - 2.MD.C.7
- **Tell time without labels**
  - 2.MD.C.7
- **Count money (U.S.)**
  - 2.MD.C.8

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
- **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
Measurement and Data
Geometric Measurement and Problem Solving

RIT Range: 192-202

- Find area by counting unit squares
- Create rectangles with a given area
- Find area with partial unit squares
- Area and the distributive property
- Area of rectangles
- Compare areas by multiplying
- Decompose figures to find area 1
- Decompose figures to find area 2
- Find a missing side length when given area
- Measure to find area
- Transition from unit squares to area formula
- Compare area and perimeter
- Find a missing side length when given perimeter
- Find perimeter by counting unit squares
- Find perimeter when given side lengths
- Measure to find perimeter
- Perimeter word problems

RIT Range: 203-212

- Estimate mass (grams and kilograms)
- Estimate volume (milliliters and liters)
- Convert to smaller units (c, pt, qt, & gal)
- Convert to smaller units (g and kg)
- Convert to smaller units (in, ft, yd, & mi)
- Convert to smaller units (mL and L)
- Convert to smaller units (mm, cm, m, & km)

Standards Alignment

3.MD.C.5 | 3.MD.C.6
3.MD.C.6
3.MD.C.6
3.MD.C.7
3.MD.C.7
3.MD.C.7
3.MD.C.7
3.MD.C.7
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3.MD.A.2 | 4.MD.A.1
4.MD.A.1
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4.MD.A.1
# Measurement and Data

## Geometric Measurement and Problem Solving

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**RIT Range: 213-219**

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Measurement and Data

Geometric Measurement and Problem Solving

RIT Range: 213-219

- Convert units (US customary)
- Convert units word problems (metric)
- Convert units word problems (US customary)
- Volume with unit cubes 1
- Compare volumes with unit cubes
- Decompose figures to find volume
- Decompose figures to find volume (unit cubes)
- Volume 1
- Volume word problems

RIT Range: 220-223

- Area challenge
- Area of composite shapes
- Area of parallelograms
- Area of right triangles
- Area of triangles
- Find base and height on a triangle
- Volume by multiplying area of base times height
- Volume with cubes with fraction lengths
- Volume with fractions
- Volume word problems: fractions & decimals

Standards Alignment

- 5.MD.A.1
- 5.MD.A.1
- 5.MD.A.1
- 5.MD.C.4
- 5.MD.C.4 | 5.MD.C.5
- 5.MD.C.5
- 5.MD.C.5
- 5.MD.C.5
- 6.G.A.1
- 6.G.A.1
- 6.G.A.1
- 6.G.A.1
- 6.G.A.1
- 6.G.A.1
- 6.G.A.2
- 6.G.A.2
- 6.G.A.2
- 6.G.A.2
Measurement and Data
Represent and Interpret Data

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

Make picture graphs 1
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
Math 2-5 | Measurement and Data | Represent and Interpret Data

Measurement and Data
Represent and Interpret Data

Standards Alignment

RIT Range: 220-223

- Calculating the median: data displays
- Create histograms
- Creating dot plots
- Creating frequency tables
- Read histograms
- Reading box plots
- Reading dot plots & frequency tables

RIT Range: 224-227

- Making inferences from random samples
- Valid claims
Geometry

Reason with Shapes, Attributes, & Coordinate Plane

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

RIT Range: 161-178

Name shapes 3         
1.G.A.1
Halves and fourths   
1.G.A.3

RIT Range: 179-191

Name shapes 4         
2.G.A.1
Equal parts of circles and rectangles   
2.G.A.3

RIT Range: 192-202

Categorize quadrilaterals 
3.G.A.1
Identify quadrilaterals   
3.G.A.1 | 5.G.B.4
Cut shapes into equal parts 
3.G.A.2
Identify unit fractions   
3.G.A.2

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
Geometry
Reason with Shapes, Attributes, & Coordinate Plane

Standards Alignment

RIT Range: 203-212

- **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 (1)**
  - 4.G.A.2 | 5.G.B.4
- **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: 213-219

- **Identify quadrilaterals**
  - 3.G.A.1 | 5.G.B.4
- **Quadrilateral types (1)**
  - 4.G.A.2 | 5.G.B.4
- **Graph points**
  - 5.G.A.1 | 5.G.A.2
- **Identify coordinates**
  - 5.G.A.1 | 5.G.A.2
- **Identify points**
  - 5.G.A.1 | 5.G.A.2
- **Coordinate plane word problems (quadrant 1)**
  - 5.G.A.2
- **Distance between points in first quadrant**
  - 5.G.A.2
- **Shapes on the coordinate plane**
  - 5.G.A.2
- **Properties of shapes**
  - 5.G.B.3 | 5.G.B.4
- **Quadrilateral types (2)**
  - 5.G.B.4

RIT Range: 220-223

- **Drawing polygons with coordinates**
  - 6.G.A.3
- **Quadrilateral problems on the coordinate plane**
  - 6.G.A.3
- **Nets of polyhedra**
  - 6.G.A.4
- **Points on the coordinate plane**
  - 6.NS.C.6

RIT Range: 224-227

- **Cross sections of 3D objects (basic)**
  - 7.G.A.3
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