

# Series Crosswalks

Math



Writing



Science



Reading



Social Studies



# Introduction

McGraw-Hill Education’s *College and Career Readiness Practice Workbooks* align to the College and Career Readiness Standards (CCRS) and develop the foundational skills needed for High School Equivalency success. Because the series was designed to align to a number of key standards and examination objectives within Adult Education, these workbooks can be used with a number of other McGraw-Hill Education programs.

## How to Use the Crosswalk

This document provides you with the information you need to fit this workbook series perfectly into your instruction as either stand-alone practice, or as additional practice supporting a number of other McGraw-Hill Education literacy, numeracy, and test preparation materials. With these crosswalks and reverse crosswalks, you will be able to use the CCR Practice Workbooks in the following ways:

Stand-alone Practice	Additional Practice	Pre-/Post-Assessment
Use the workbooks as stand-alone practice to determine students’ skill and content mastery levels. Use the crosswalks to determine what materials can be used to reinforce concepts not yet mastered.	Use the reverse crosswalks to determine which workbooks and lessons can help reinforce or remediate lessons within McGraw-Hill Education programs you already use.	Use the workbooks to assess student understanding before or after teaching a particular concept.

This specific document includes the crosswalks and reverse crosswalks for the Mathematics workbooks. If no page numbers are specified, then the entire lesson/chapter/unit references that content or skill.

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### CCR Practice Workbook Alignments to Other McGraw-Hill Education Series

Use the crosswalk to identify what pages and lessons from McGraw-Hill Education titles align to each lesson within the *College and Career Readiness Mathematics Practice Workbooks*.

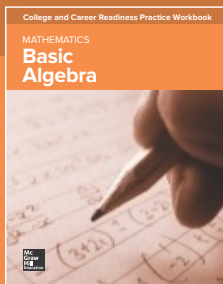
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### McGraw-Hill Education Series Alignments to the CCR Practice Workbooks

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### McGraw-Hill Education College and Career Readiness Resources



## MATHEMATICS

# Basic Algebra

Use the following *High School Equivalency Basics Mathematics*, *High School Equivalency Achieve Mathematics*, *Achieving TABE Success in Mathematics*, *EMPower*, *EMPower Plus*, *Workplace Skills – Applied Mathematics* and *Number Power* resources to provide additional practice for the following *College and Career Readiness Practice Workbook: Basic Algebra* lessons.

### Basic Algebra Lessons

### McGraw-Hill Education Resources

<p><b>L1</b> Translating Variable Expressions</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• L5.1 Expressions</li> <li>• L5.5 Identify Patterns</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• pp. 82–84</li> </ul> <p><b>Achieving TABE Success - Level M</b></p> <ul style="list-style-type: none"> <li>• Writing Algebraic Expressions, pp. 117–118</li> </ul> <p><b>Achieving TABE Success - Level D</b></p> <ul style="list-style-type: none"> <li>• Using Variables to Write Expressions, p. 103</li> <li>• Interpreting Expressions and Equations, p. 105</li> </ul> <p><b>Achieving TABE Success - Level A</b></p> <ul style="list-style-type: none"> <li>• Using Variables in Algebraic Expressions, pp. 114–115</li> </ul> <p><b>EMPower- Everyday Number Sense: Mental Math and Visual Models</b></p> <ul style="list-style-type: none"> <li>• L8 Picture This</li> </ul> <p><b>EMPower Plus- Everyday Number Sense: Mental Math and Visual Models</b></p> <ul style="list-style-type: none"> <li>• L10 Picture This</li> </ul> <p><b>Number Power: Transitions Math</b></p> <ul style="list-style-type: none"> <li>• pp. 15–16</li> </ul> <p><b>Number Power: Pre-Algebra</b></p> <ul style="list-style-type: none"> <li>• pp. 140–143</li> </ul> <p><b>Number Power: Algebra</b></p> <ul style="list-style-type: none"> <li>• pp. 42–45</li> </ul>
<p><b>L2</b> Order of Operations</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• pp. 36–37, 251–252</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• pp. 24–25</li> </ul> <p><b>Achieving TABE Success - Level A</b></p> <ul style="list-style-type: none"> <li>• Following Order of Operations, p. 17</li> </ul> <p><b>EMPower- Everyday Number Sense: Mental Math and Visual Models</b></p> <ul style="list-style-type: none"> <li>• L7 Patterns and Order</li> </ul>

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<p><b>L3</b> Properties</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• pp. 27–30, 140, 151</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• pp. 22–23, 30–31</li> </ul> <p><b>Achieving TABE Success - Level M</b></p> <ul style="list-style-type: none"> <li>• Reviewing Addition Concepts, p. 15</li> <li>• Reviewing Subtraction Concepts, p. 26</li> <li>• Reviewing Basic Multiplication Concepts, p. 36</li> <li>• Reviewing Basic Division Concepts, p. 48</li> <li>• Reviewing Basic Division Facts, p. 49</li> <li>• Reviewing Basic Number Properties, pp. 114–115</li> </ul> <p><b>Achieving TABE Success - Level D</b></p> <ul style="list-style-type: none"> <li>• Reviewing Addition, p. 15</li> <li>• Reviewing Multiplication, p. 18</li> <li>• Reviewing Basic Properties of Numbers, pp. 100–101</li> </ul> <p><b>Achieving TABE Success - Level A</b></p> <ul style="list-style-type: none"> <li>• Reviewing Basic Addition Facts, p. 8</li> <li>• Reviewing Basic Multiplication Facts, p. 10</li> </ul> <p><b>Number Power: Transitions Math</b></p> <ul style="list-style-type: none"> <li>• pp. 1–3, 34–35</li> </ul>
<p><b>L4</b> Evaluating Expressions</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• pp. 136–138, 147, 250–252</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• L3.1 Evaluate Linear Expressions</li> </ul> <p><b>Achieving TABE Success - Level M</b></p> <ul style="list-style-type: none"> <li>• Evaluating Expressions, p. 119</li> </ul> <p><b>Achieving TABE Success - Level D</b></p> <ul style="list-style-type: none"> <li>• Evaluating Expressions, p. 104</li> </ul> <p><b>Achieving TABE Success - Level A</b></p> <ul style="list-style-type: none"> <li>• Evaluating Algebraic Expressions, p. 116</li> </ul> <p><b>Number Power: Transitions Math</b></p> <ul style="list-style-type: none"> <li>• pp. 25–27</li> </ul> <p><b>Number Power: Pre-Algebra</b></p> <ul style="list-style-type: none"> <li>• pp. 146–147</li> </ul> <p><b>Number Power: Algebra</b></p> <ul style="list-style-type: none"> <li>• pp. 46–48</li> </ul>

<p><b>L5</b> Equivalent Expressions</p>	<p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>pp. 21–23</li> </ul> <p><b>Achieving TABE Success - Level M</b></p> <ul style="list-style-type: none"> <li>Writing Algebraic Expressions, pp. 117–118</li> </ul> <p><b>Achieving TABE Success - Level D</b></p> <ul style="list-style-type: none"> <li>Interpreting Expressions and Equations, p. 105</li> </ul> <p><b>Achieving TABE Success - Level A</b></p> <ul style="list-style-type: none"> <li>Following Order of Operations, p. 17</li> </ul> <p><b>EMPower- Everyday Number Sense: Mental Math and Visual Models</b></p> <ul style="list-style-type: none"> <li>L8 Picture This</li> </ul> <p><b>EMPower Plus- Everyday Number Sense: Mental Math and Visual Models</b></p> <ul style="list-style-type: none"> <li>L10 Picture This</li> </ul> <p><b>EMPower-Seeking Patterns, Building Rules: Algebraic Thinking</b></p> <ul style="list-style-type: none"> <li>L7 What is the Message?</li> </ul> <p><b>Number Power: Transitions Math</b></p> <ul style="list-style-type: none"> <li>p. 33</li> </ul> <p><b>Number Power: Algebra</b></p> <ul style="list-style-type: none"> <li>pp. 52–53</li> </ul>
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- L9 What's the Story?

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- L6.5 Functions

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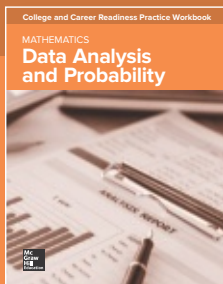
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<p><b>L14</b> Solving One- Variable Inequalities</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• Lesson 5.4 Solve One- and Two-Step Inequalities</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• Lesson 3.3 Solve Linear Inequalities</li> </ul> <p><b>Achieving TABE Success - Level D</b></p> <ul style="list-style-type: none"> <li>• Solving Inequalities, p. 108</li> </ul> <p><b>Achieving TABE Success - Level A</b></p> <ul style="list-style-type: none"> <li>• Solving Inequalities, pp. 126–127</li> </ul> <p><b>Number Power: Transitions Math</b></p> <ul style="list-style-type: none"> <li>• pp. 48–51</li> </ul> <p><b>Number Power: Algebra</b></p> <ul style="list-style-type: none"> <li>• pp. 127–133</li> </ul>





## MATHEMATICS

# Data Analysis and Probability

Use the following *High School Equivalency Basics Mathematics*, *High School Equivalency Achieve Mathematics*, *Achieving TABE Success in Mathematics*, *EMPower*, and *Number Power* resources to provide additional practice for the following *College and Career Readiness Practice Workbook: Data Analysis and Probability* lessons.

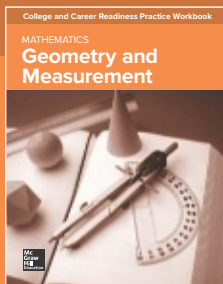
## Data Analysis and Probability Lessons

## McGraw-Hill Education Resources

<p><b>L1</b> Measures of Central Tendency</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• L9.1 Measures of Central Tendency and Range</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• L8.1 Calculate Measures of Central Tendency</li> </ul> <p><b>Achieving TABE Success - Level M</b></p> <ul style="list-style-type: none"> <li>• Finding Mean, Median, and Mode, pp. 100–101</li> </ul> <p><b>Achieving TABE Success - Level D</b></p> <ul style="list-style-type: none"> <li>• Finding Mean, Median, and Mode, p. 158</li> </ul> <p><b>Achieving TABE Success - Level A</b></p> <ul style="list-style-type: none"> <li>• Finding Mean, Median, and Mode, pp. 96–97</li> </ul> <p><b>EMPower- Many Points Make a Point: Data and Graphs</b></p> <ul style="list-style-type: none"> <li>• L7 A Mean Idea</li> <li>• L9 Median</li> </ul> <p><b>Number Power: Pre-Algebra</b></p> <ul style="list-style-type: none"> <li>• pp. 42–43</li> </ul> <p><b>Number Power: Analyzing Data</b></p> <ul style="list-style-type: none"> <li>• pp. 52–56</li> </ul>
<p><b>L2</b> Box Plots</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• pp. 279–280</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• pp. 274–275</li> </ul>
<p><b>L3</b> Displaying Data I</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• pp. 274–280</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• pp. 262–265</li> <li>• L8.3 Display One-Variable Data</li> </ul> <p><b>Achieving TABE Success - Level M</b></p> <ul style="list-style-type: none"> <li>• Working with Graphs, p. 102</li> <li>• Reading a Circle Graph, p. 103</li> <li>• Reading a Bar Graph, p. 104</li> <li>• Reading a Double Bar Graph, p. 105</li> </ul> <p><b>Achieving TABE Success - Level D</b></p> <ul style="list-style-type: none"> <li>• Reading a Circle Graph, p. 159</li> <li>• Finding the Numbers Represented in a Circle Graph, p. 160</li> <li>• Reading a Bar Graph, p. 161</li> <li>• Understanding Data in Bar Graphs, p. 162</li> </ul>

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<p><b>L8</b> Displaying Two-Variable Data</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• pp. 277–278</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• L8.4 Display Two-Variable Data</li> </ul> <p><b>Achieving TABE Success - Level M</b></p> <ul style="list-style-type: none"> <li>• Reading a Table, pp. 96–97</li> <li>• Using Numbers in a Table, p. 98</li> <li>• Using a Price List, p. 99</li> <li>• Reading a Line Graph, p. 106</li> </ul> <p><b>Achieving TABE Success - Level D</b></p> <ul style="list-style-type: none"> <li>• Reading a Table, p. 154</li> <li>• Using a Price List, p. 155</li> <li>• Using Tables to Make Comparisons, p. 156</li> <li>• Interpreting Information in Tables, p. 157</li> <li>• Reading a Line Graph, p. 163</li> </ul> <p><b>Achieving TABE Success - Level A</b></p> <ul style="list-style-type: none"> <li>• Reading a Table, p. 99</li> <li>• Reading a Complex Table or Chart, p. 100</li> <li>• Reading a Line Graph, p. 103</li> <li>• Identifying Trends and Making Predictions, p. 104</li> </ul> <p><b>EMPower- Many Points Make a Point: Data and Graphs</b></p> <ul style="list-style-type: none"> <li>• L1 Countries in Our Closets</li> <li>• L6 Roller-Coaster Rides</li> <li>• L8 Mystery Cities</li> </ul>
<p><b>L9</b> Scatter Plots</p>	<p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• pp. 280–281</li> </ul> <p><b>Number Power: Analyzing Data</b></p> <ul style="list-style-type: none"> <li>• pp. 50–51</li> </ul>
<p><b>L10</b> Counting Techniques</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• L10.1 Counting Methods</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• L2.3 Use Counting Techniques</li> </ul>
<p><b>L11</b> Determine Probability</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• L10.2 Introduction to Probability</li> <li>• L10.3 Compound Events</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• L2.4 Determine Probability</li> </ul> <p><b>Achieving TABE Success - Level M</b></p> <ul style="list-style-type: none"> <li>• Understanding Probability, p. 107</li> </ul> <p><b>Achieving TABE Success - Level D</b></p> <ul style="list-style-type: none"> <li>• Investigating Probability, pp. 151–152</li> </ul> <p><b>Achieving TABE Success - Level A</b></p> <ul style="list-style-type: none"> <li>• Investigating Probability, pp. 94–95</li> </ul> <p><b>Number Power: Analyzing Data</b></p> <ul style="list-style-type: none"> <li>• pp. 86–92</li> </ul> <p><b>Number Power: Pre-Algebra</b></p> <ul style="list-style-type: none"> <li>• pp. 88–103</li> </ul>



## MATHEMATICS

# Geometry and Measurement

Use the following *High School Equivalency Basics Mathematics*, *High School Equivalency Achieve Mathematics*, *Achieving TABE Success in Mathematics*, *EMPower*, *Workplace Skills – Applied Mathematics* and *Number Power* resources to provide additional practice for the following *College and Career Readiness Practice Workbook: Geometry and Measurement* lessons.

## Geometry and Measurement Lessons

### L1 Measuring and Converting Units

## McGraw-Hill Education Resources

#### HSE Basics

- L11.1 Customary Units
- L11.2 Metric Units

#### Achieving TABE Success - Level M

- Understanding Measurement, p. 124
- Choosing and Appropriate Unit of Measure, p. 125
- Converting Units Within the Customary System, pp. 126–127
- Converting Units Within the Metric System, pp. 128–129

#### Achieving TABE Success - Level D

- Using a Customary Ruler, p. 131
- Measuring to a Fractions of an inch, p. 132
- Reviewing Customary Units of Measure, p. 133
- Converting Units Within the Customary System, p. 134
- Reviewing Metric Units of Measure, p. 135
- Converting Units Within the Metric System, p. 136
- Comparing Customary and Metric Units, p. 137

#### Achieving TABE Success - Level A

- Using a Ruler, p. 146
- Reviewing Customary Units of Measure, p. 147
- Converting Units Within the Customary System, p. 148
- Reviewing the Metric System, p. 149
- Converting Units Within the Customary System, pp. 150–151
- Converting Between Customary and Metric Units, p. 152

#### Workplace Skills- Applied Mathematics

- L12 Calculate with Mixed Units
- L15 Convert Measurements
- L23 Change from One Unit to Another in the Same Measurement System
- L24 Convert from One System of Measurement to Another
- L27 Convert Between Systems of Measurement

#### EMPower- Over, Around, and Within: Geometry and Measurement

- L8 Conversion Experiences
- L9 Squarely in English

#### Number Power: Measurement

- pp. 16–33, 36–65, 76–93

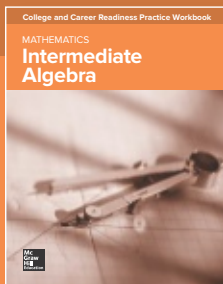
<p><b>L2</b> Angles, Parallel lines, Transversals</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• L12.1 Geometric Figures</li> </ul> <p><b>Achieving TABE Success - Level M</b></p> <ul style="list-style-type: none"> <li>• Naming Points, Line, Line Segments, and Rays, p. 143</li> <li>• Naming Angles, p. 144</li> <li>• Investigating Lines, p. 145</li> </ul> <p><b>Achieving TABE Success - Level D</b></p> <ul style="list-style-type: none"> <li>• Recognizing Types of Angles, p. 114</li> <li>• Recognizing Relationships of Lines, p. 115</li> <li>• Drawing Diagonals in a Polygon, p. 119</li> </ul> <p><b>Achieving TABE Success - Level A</b></p> <ul style="list-style-type: none"> <li>• Classifying Angles, p. 131</li> <li>• Recognizing Relationships Between Lines, p. 132</li> <li>• Recognizing Corresponding Angles, p. 133</li> <li>• Using Angle Relationships, pp. 134–135</li> </ul> <p><b>EMPower- Over, Around, and Within: Geometry and Measurement</b></p> <ul style="list-style-type: none"> <li>• L2 Get It Right</li> <li>• L3 Get It Straight</li> </ul> <p><b>Number Power: Pre-Algebra</b></p> <ul style="list-style-type: none"> <li>• pp. 106–111</li> </ul> <p><b>Number Power: Measurement</b></p> <ul style="list-style-type: none"> <li>• pp. 34–39</li> </ul> <p><b>Number Power: Geometry</b></p> <ul style="list-style-type: none"> <li>• pp. 22–29</li> </ul>
<p><b>L3</b> Pythagorean Theorem</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• L12.5 Pythagorean Theorem</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• pp. 223–224</li> </ul> <p><b>Achieving TABE Success - Level A</b></p> <ul style="list-style-type: none"> <li>• Using Pythagorean Theorem, p. 139</li> </ul> <p><b>Number Power: Algebra</b></p> <ul style="list-style-type: none"> <li>• pp. 188–189</li> </ul> <p><b>Number Power: Pre-Algebra</b></p> <ul style="list-style-type: none"> <li>• pp. 190–191</li> </ul> <p><b>Number Power: Geometry</b></p> <ul style="list-style-type: none"> <li>• pp. 62–63</li> </ul>
<p><b>L4</b> Perimeter and Area of Polygons</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• L12.2 Perimeter and Circumference</li> <li>• L12.4 Area</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• L7.1 Compute Perimeter and Area of Polygons</li> </ul> <p><b>Achieving TABE Success - Level M</b></p> <ul style="list-style-type: none"> <li>• Finding Perimeter, p. 135</li> <li>• Finding Area, p. 136</li> </ul> <p><b>Achieving TABE Success - Level D</b></p> <ul style="list-style-type: none"> <li>• Finding Perimeter, p. 141</li> <li>• Finding Area of Squares and Rectangles, p. 143</li> <li>• Finding the Area of a Triangle, pp. 144–145</li> </ul>

	<p><b>Achieving TABE Success - Level A</b></p> <ul style="list-style-type: none"> <li>• Finding Perimeter, p. 153</li> <li>• Finding Area, p. 155</li> </ul> <p><b>Workplace Skills- Applied Mathematics</b></p> <ul style="list-style-type: none"> <li>• L13 Calculate Perimeter and Area</li> <li>• L22 Rearrange a Formula</li> <li>• L26 Apply Formula Rearrangements and Unit conversions to Calculate Area</li> </ul> <p><b>EMPower- Over, Around, and Within: Geometry and Measurement</b></p> <ul style="list-style-type: none"> <li>• L4 Giant Size</li> <li>• L5 Line Up by Size</li> <li>• L6 Combing Rectangles</li> <li>• L7 Disappearing Grid Lines</li> </ul> <p><b>Number Power: Geometry</b></p> <ul style="list-style-type: none"> <li>• pp. 78–85, 138–143</li> </ul> <p><b>Number Power: Measurement</b></p> <ul style="list-style-type: none"> <li>• pp. 40–41, 128–129</li> </ul> <p><b>Number Power: Pre-Algebra</b></p> <ul style="list-style-type: none"> <li>• pp. 114, 116, 119</li> </ul> <p><b>Number Power: Fractions, Decimals, and Percents</b></p> <ul style="list-style-type: none"> <li>• pp. 136–137</li> </ul>
<p><b>L5</b> Circumference and Area of a Circle</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• pp. 335–336, 348</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• L7.2 Compute Circumference and Area of Circles</li> </ul> <p><b>Achieving TABE Success - Level D</b></p> <ul style="list-style-type: none"> <li>• Finding Circumference, p. 142</li> <li>• Finding the Area of a Circle, p. 146</li> </ul> <p><b>Achieving TABE Success - Level A</b></p> <ul style="list-style-type: none"> <li>• Finding Circumference, p. 154</li> <li>• Finding Area, p. 155</li> </ul> <p><b>Workplace Skills- Applied Mathematics</b></p> <ul style="list-style-type: none"> <li>• L13 Calculate Perimeter and Area</li> <li>• L22 Rearrange a Formula</li> </ul> <p><b>EMPower- Seeking Patterns, Building Rules: Algebraic Thinking</b></p> <ul style="list-style-type: none"> <li>• L6 Circle Patterns</li> </ul> <p><b>Number Power: Geometry</b></p> <ul style="list-style-type: none"> <li>• pp. 86–87, 100–101</li> </ul> <p><b>Number Power: Pre-Algebra</b></p> <ul style="list-style-type: none"> <li>• pp. 115, 118–119</li> </ul> <p><b>Number Power: Fractions, Decimals, and Percents</b></p> <ul style="list-style-type: none"> <li>• pp. 142–145</li> </ul>
<p><b>L6</b> Area and Perimeter of Composite Shapes</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• pp. 344, 349–350</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• L7.4 Compute Perimeter, Area, Surface Area and Volume of Composite Figures</li> </ul>

	<p><b>Achieving TABE Success - Level A</b></p> <ul style="list-style-type: none"> <li>Finding Perimeter, p. 153</li> </ul> <p><b>EMPower- Over, Around, and Within: Geometry and Measurement</b></p> <ul style="list-style-type: none"> <li>L6 Combing Rectangles</li> </ul> <p><b>Number Power: Geometry</b></p> <ul style="list-style-type: none"> <li>pp. 106–109</li> </ul> <p><b>Number Power: Pre-Algebra</b></p> <ul style="list-style-type: none"> <li>p. 119</li> </ul>
<p><b>L7</b> Transformations</p>	<p><b>Achieving TABE Success - Level D</b></p> <ul style="list-style-type: none"> <li>Distinguishing Among Transformations, pp. 124–125</li> </ul> <p><b>Achieving TABE Success - Level A</b></p> <ul style="list-style-type: none"> <li>Understanding Transformations, pp. 141–142</li> </ul> <p><b>Number Power: Transitions Math</b></p> <ul style="list-style-type: none"> <li>pp. 190–194</li> </ul> <p><b>Number Power: Geometry</b></p> <ul style="list-style-type: none"> <li>pp. 164–165</li> </ul> <p><b>Number Power: Pre-Algebra</b></p> <ul style="list-style-type: none"> <li>p. 127</li> </ul>
<p><b>L8</b> Scale Drawings and Measurement</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>L12.3 Scale Drawings and Measurement</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>p. 51</li> </ul> <p><b>EMPower- Over, Around, and Within: Geometry and Measurement</b></p> <ul style="list-style-type: none"> <li>L10 Scale Down</li> </ul> <p><b>EMPower- Keeping Things in Proportion: Reasoning with Ratios</b></p> <ul style="list-style-type: none"> <li>L5 Mona Lisa, Is That You?</li> </ul> <p><b>Number Power: Geometry</b></p> <ul style="list-style-type: none"> <li>pp. 168–169</li> </ul> <p><b>Number Power: Pre-Algebra</b></p> <ul style="list-style-type: none"> <li>pp. 188–189</li> </ul>
<p><b>L9</b> Similar and Congruent Polygons</p>	<p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>p. 51</li> </ul> <p><b>Achieving TABE Success - Level M</b></p> <ul style="list-style-type: none"> <li>Recognizing Congruent Figures, p. 152</li> <li>Recognizing Similar Figures, p. 153</li> </ul> <p><b>Achieving TABE Success - Level D</b></p> <ul style="list-style-type: none"> <li>Recognizing Similarity and Congruence, p. 121</li> </ul> <p><b>EMPower- Over, Around, and Within: Geometry and Measurement</b></p> <ul style="list-style-type: none"> <li>L4 Giant Size</li> </ul> <p><b>EMPower- Keeping Things in Proportion: Reasoning with Ratios</b></p> <ul style="list-style-type: none"> <li>L6 Redesigning Your Calculator</li> </ul> <p><b>Number Power: Geometry</b></p> <ul style="list-style-type: none"> <li>pp. 166–167</li> </ul> <p><b>Number Power: Pre-Algebra</b></p> <ul style="list-style-type: none"> <li>pp. 126, 186–187</li> </ul>

<p><b>L10</b> Surface Area</p>	<p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• L7.3 Compute Surface Area and Volume</li> </ul> <p><b>Achieving TABE Success - Level D</b></p> <ul style="list-style-type: none"> <li>• Working with Three-Dimensional Figures, pp. 122–123</li> <li>• Finding Surface Area, p. 147</li> </ul> <p><b>Workplace Skills- Applied Mathematics</b></p> <ul style="list-style-type: none"> <li>• L30 Calculate Areas and Volumes of Spheres, Cylinders, or Cones</li> </ul> <p><b>EMPower- Over, Around, and Within: Geometry and Measurement</b></p> <ul style="list-style-type: none"> <li>• L13 On the Surface</li> </ul> <p><b>Number Power: Geometry</b></p> <ul style="list-style-type: none"> <li>• pp. 144–145</li> </ul> <p><b>Number Power: Pre-Algebra</b></p> <ul style="list-style-type: none"> <li>• pp. 182–184</li> </ul>
<p><b>L11</b> Volume</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• L12.6 Geometric Solids and Volume</li> <li>• L12.7 Volume of Cones, Cylinders, and Spheres</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• L7.3 Compute Surface Area and Volume</li> </ul> <p><b>Achieving TABE Success - Level D</b></p> <ul style="list-style-type: none"> <li>• Finding Volume, p. 148</li> </ul> <p><b>Achieving TABE Success - Level A</b></p> <ul style="list-style-type: none"> <li>• Finding Volume, pp. 156–157</li> </ul> <p><b>Workplace Skills- Applied Mathematics</b></p> <ul style="list-style-type: none"> <li>• L21 Find Volume of Rectangular Solids</li> <li>• L22 Rearrange a Formula</li> <li>• L30 Calculate Areas and Volumes of Spheres, Cylinders, or Cones</li> </ul> <p><b>EMPower- Over, Around, and Within: Geometry and Measurement</b></p> <ul style="list-style-type: none"> <li>• L11 Filling the Room</li> <li>• L12 Cheese Cubes, Anyone?</li> </ul> <p><b>Number Power: Geometry</b></p> <ul style="list-style-type: none"> <li>• pp. 116–123</li> </ul> <p><b>Number Power: Measurement</b></p> <ul style="list-style-type: none"> <li>• pp. 94–101, 138–141</li> </ul> <p><b>Number Power: Pre-Algebra</b></p> <ul style="list-style-type: none"> <li>• pp. 120–121</li> </ul> <p><b>Number Power: Fractions, Decimals, and Percents</b></p> <ul style="list-style-type: none"> <li>• pp. 140–141</li> </ul>
<p><b>L12</b> Surface Area and Volume of Composite Figures</p>	<p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• L7.4 Compute Perimeter, Area, Surface Area and Volume of Composite Figures</li> </ul> <p><b>Number Power: Geometry</b></p> <ul style="list-style-type: none"> <li>• pp. 124–127</li> </ul>





## MATHEMATICS

# Intermediate Algebra

Use the following *High School Equivalency Basics Mathematics*, *High School Equivalency Achieve Mathematics*, *Achieving TABE Success in Mathematics*, *EMPower*, *Workplace Skills – Applied Mathematics and Number Power* resources to provide additional practice for the following *College and Career Readiness Practice Workbook: Intermediate Algebra* lessons.

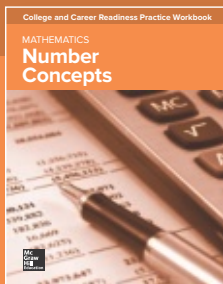
## Intermediate Algebra Lessons

## McGraw-Hill Education Resources

<p><b>L1</b> Writing Linear Equations</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• L6.1 Linear Equations</li> <li>• L6.2 Graphing Linear Equations</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• pp. 91, 107–108</li> <li>• L5.2 Write the Equation of a Line</li> </ul> <p><b>Achieving TABE Success - Level M</b></p> <ul style="list-style-type: none"> <li>• Using Equations, p. 120</li> </ul> <p><b>Achieving TABE Success - Level D</b></p> <ul style="list-style-type: none"> <li>• Writing Equations and Inequalities, p. 109</li> <li>• Using Equations to Solve Word Problems, p. 110</li> </ul> <p><b>Achieving TABE Success - Level A</b></p> <ul style="list-style-type: none"> <li>• Writing Algebraic Equations and Inequalities, p. 117</li> <li>• Using Equations to Solve Word Problems, p. 124</li> </ul> <p><b>EMPower-Seeking Patterns, Building Rules: Algebraic Thinking</b></p> <ul style="list-style-type: none"> <li>• L1 Guess My Rule</li> <li>• L7 What Is the Message?</li> </ul> <p><b>EMPower- Everyday Number Sense: Mental Math and Visual Models</b></p> <ul style="list-style-type: none"> <li>• L9 What's the Story?</li> </ul> <p><b>Number Power: Transitions Math</b></p> <ul style="list-style-type: none"> <li>• pp. 42–43, 75–82, 84–86</li> </ul>
<p><b>L2</b> Solving Systems of Equations by Graphing</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• p. 186</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• L5.4 Solve Systems of Linear Equations</li> </ul> <p><b>Number Power: Algebra</b></p> <ul style="list-style-type: none"> <li>• pp. 118–119</li> </ul> <p><b>Number Power: Transitions Math</b></p> <ul style="list-style-type: none"> <li>• pp. 99–101</li> </ul>
<p><b>L3</b> Solving Systems of Equations Using Substitution and Elimination</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• pp. 186–187</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• L5.4 Solve Systems of Linear Equations</li> </ul> <p><b>Number Power: Algebra</b></p> <ul style="list-style-type: none"> <li>• pp. 100–101</li> </ul> <p><b>Number Power: Transitions Math</b></p> <ul style="list-style-type: none"> <li>• pp. 102–113</li> </ul>

<b>L4</b> Graphing Two-Variable Inequalities	<b>Number Power: Transitions Math</b> <ul style="list-style-type: none"> <li>pp. 211–213</li> </ul>
<b>L5</b> Exponents	<b>HSE Basics</b> <ul style="list-style-type: none"> <li>Lesson 8.1 Exponents</li> </ul> <b>HSE Achieve</b> <ul style="list-style-type: none"> <li>p. 41</li> <li>L1.3 Compute with Exponents</li> </ul> <b>Achieving TABE Success - Level A</b> <ul style="list-style-type: none"> <li>Working with Exponents and Powers, pp. 13–14</li> <li>Multiplying by Powers of 10, p. 15</li> </ul> <b>EMPower- Seeking Patterns, Building Rules: Algebraic Thinking</b> <ul style="list-style-type: none"> <li>pp. 144–145</li> </ul> <b>EMPower- Everyday Number Sense: Mental Math and Visual Models</b> <ul style="list-style-type: none"> <li>pp. 120, 122</li> </ul> <b>EMPower Plus- Everyday Number Sense: Mental Math and Visual Models</b> <ul style="list-style-type: none"> <li>pp. 194–195</li> </ul> <b>Number Power: Algebra</b> <ul style="list-style-type: none"> <li>pp. 26–32, 38–39</li> </ul> <b>Number Power: Transitions Math</b> <ul style="list-style-type: none"> <li>pp. 5–8</li> </ul>
<b>L6</b> Graphing Exponential Functions	<b>HSE Basics</b> <ul style="list-style-type: none"> <li>p. 203</li> </ul> <b>HSE Achieve</b> <ul style="list-style-type: none"> <li>pp. 193, 196–197, 212–213</li> </ul> <b>Workplace Skills- Applied Mathematics</b> <ul style="list-style-type: none"> <li>p. 214</li> </ul>
<b>L7</b> Radicals	<b>HSE Basics</b> <ul style="list-style-type: none"> <li>L8.2 Roots</li> </ul> <b>HSE Achieve</b> <ul style="list-style-type: none"> <li>L1.4 Compute with Roots</li> </ul> <b>Achieving TABE Success - Level A</b> <ul style="list-style-type: none"> <li>Finding a Square Root, p. 16</li> </ul> <b>Number Power: Transitions Math</b> <ul style="list-style-type: none"> <li>pp. 9–12, 158–162</li> </ul>
<b>L8</b> Adding and Subtracting Rational Expressions	<b>HSE Achieve</b> <ul style="list-style-type: none"> <li>pp. 141–143</li> </ul> <b>Achieving TABE Success - Level A</b> <ul style="list-style-type: none"> <li>Combining Terms, p. 120</li> </ul> <b>Number Power: Algebra</b> <ul style="list-style-type: none"> <li>pp. 52–53, 138–141</li> </ul> <b>Number Power: Transitions Math</b> <ul style="list-style-type: none"> <li>pp. 17–19, 21–24</li> </ul>
<b>L9</b> Multiplying Rational Expressions	<b>HSE Achieve</b> <ul style="list-style-type: none"> <li>pp. 139–141</li> </ul> <b>Achieving TABE Success - Level A</b> <ul style="list-style-type: none"> <li>Combining Terms, p. 120</li> </ul>

	<p><b>Number Power: Algebra</b></p> <ul style="list-style-type: none"> <li>pp. 144–145</li> </ul> <p><b>Number Power: Transitions Math</b></p> <ul style="list-style-type: none"> <li>pp. 19–20</li> </ul>
<b>L10</b> Interpreting Quadratic Equation Graphs	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>pp. 193–194</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>L6.3 Identify Key Features of a Graph</li> </ul> <p><b>Number Power: Transitions Math</b></p> <ul style="list-style-type: none"> <li>pp. 181–186</li> </ul>
<b>L11</b> Factoring Polynomials	<p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>L4.2 Factor Polynomials</li> </ul> <p><b>Number Power: Algebra</b></p> <ul style="list-style-type: none"> <li>pp. 156–157</li> </ul> <p><b>Number Power: Transitions Math</b></p> <ul style="list-style-type: none"> <li>pp. 153–155</li> </ul>
<b>L12</b> Solving Polynomials by Factoring	<p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>L4.2 Factor Polynomials</li> </ul> <p><b>Number Power: Transitions Math</b></p> <ul style="list-style-type: none"> <li>pp. 142–149, 153–155</li> </ul>
<b>L13</b> Solving Quadratics by Roots and Completing the Square	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>pp. 354–355</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>pp. 131–133</li> </ul> <p><b>Number Power: Transitions Math</b></p> <ul style="list-style-type: none"> <li>pp. 163–168, 173–175</li> </ul>
<b>L14</b> Quadratic Formula	<p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>pp. 134–135</li> </ul> <p><b>Number Power: Transitions Math</b></p> <ul style="list-style-type: none"> <li>pp. 169–172</li> </ul>
<b>L15</b> Multiple Representations of Quadratics	<p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>pp. 125–126, 193, 196–197, 212–213</li> </ul> <p><b>Number Power: Algebra</b></p> <ul style="list-style-type: none"> <li>pp. 120–121</li> </ul> <p><b>Number Power: Transitions Math</b></p> <ul style="list-style-type: none"> <li>pp. 163, 172, 186–187</li> </ul>
<b>L16</b> Simplifying and Dividing Rational Expressions	<p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>L4.4 Evaluate Rational Expressions</li> </ul> <p><b>Achieving TABE Success - Level A</b></p> <ul style="list-style-type: none"> <li>Combining Terms, p. 120</li> </ul> <p><b>Number Power: Algebra</b></p> <ul style="list-style-type: none"> <li>pp. 158–161</li> </ul> <p><b>Number Power: Transitions Math</b></p> <ul style="list-style-type: none"> <li>pp. 17–20, 156–157</li> </ul>



## MATHEMATICS

# Number Concepts

Use the following *High School Equivalency Basics Mathematics*, *High School Equivalency Achieve Mathematics*, *Achieving TABE Success in Mathematics*, *EMPower*, *Workplace Skills – Applied Mathematics and Number Power* resources to provide additional practice for the following *College and Career Readiness Practice Workbook: Number Concepts* lessons.

## Number Concepts Lessons

**L1** The Real Number System, Integers, and Absolute Value

**L2** Comparing and Ordering Rational Numbers

## McGraw-Hill Education Resources

### HSE Basics

- L4.1 Introduction to Integers and Absolute Value

### HSE Achieve

- pp. 12–14, 16–17

### Achieving TABE Success - Level D

- Understanding Integers, p. 73
- Working with Absolute Value, p. 74

### Achieving TABE Success - Level A

- Reviewing Positive and Negative Numbers, p. 68
- Working with Absolute Value, p. 69

### EMPower- Operation Sense: Even More Fractions, Decimals, and Percents

- L3 Subtraction- Take Away, Comparison, and Difference

### Number Power: Transitions Math

- p. 52

### Number Power: Pre-Algebra

- pp. 18–19

### Number Power: Algebra

- pp. 10–11, 94–95

### HSE Basics

- pp. 15, 51, 78–79, 105

### HSE Achieve

- L1.1 Order Rational Numbers on a Number Line

### Achieving TABE Success - Level M

- Comparing Whole Numbers, p. 11
- Comparing Fractions, p. 69
- Comparing Decimal Numbers, p. 88

### Achieving TABE Success - Level D

- Comparing Whole Numbers, p. 10
- Comparing Decimals, p. 41
- Comparing Fractions, p. 54
- Comparing and Ordering Unlike Fractions, p. 63

### Achieving TABE Success - Level A

- Comparing and Ordering Decimals, p. 34
- Comparing and Ordering Fractions, p. 53

### EMPower- Everyday Number Sense: Mental Math and Visual Models

- L3 Traveling with Numbers
- L5 Extending the Line

	<p><b>EMPower Plus- Everyday Number Sense: Mental Math and Visual Models</b></p> <ul style="list-style-type: none"> <li>• L3 Traveling with Numbers</li> <li>• L6 Extending the Line</li> </ul> <p><b>EMPower- Operation Sense: Even More Fractions, Decimals, and Percents</b></p> <ul style="list-style-type: none"> <li>• L1 Equivalent</li> <li>• L3 Subtraction- Take Away, Comparison, and Difference</li> </ul> <p><b>EMPower- Using Benchmarks: Fractions, Decimals, and Percents</b></p> <ul style="list-style-type: none"> <li>• L1 More Than, Less Than, or Equal to One-Half</li> <li>• L2 Half of a Half</li> <li>• L3 Three Out of Four</li> <li>• L4 Fraction Stations</li> <li>• L5 One-Tenth</li> <li>• L6 More About One-Tenth</li> </ul> <p><b>EMPower Plus- Using Benchmarks: Fractions and Operations</b></p> <ul style="list-style-type: none"> <li>• L6 Equal Measures</li> <li>• L7 Visualizing and Estimating Sums and Differences</li> </ul> <p><b>EMPower-Split It Up: More Fractions, Decimals and Percents</b></p> <ul style="list-style-type: none"> <li>• L5 Fold and Figure</li> <li>• L6 Give Me a Third</li> <li>• L7 Order, Choose, and Change</li> </ul> <p><b>Number Power Algebra</b></p> <ul style="list-style-type: none"> <li>• p. 11</li> </ul>
<p><b>L3</b> Integer Operations</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• L4.2 Add Integers</li> <li>• L4.3 Subtract Integers</li> <li>• L4.4 Multiply and Divide Integers</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• L1.2 Apply Number Properties</li> </ul> <p><b>Achieving TABE Success - Level M</b></p> <ul style="list-style-type: none"> <li>• Adding Three or More Numbers, p. 17</li> <li>• Writing Numbers in Columns to Add, p. 18</li> <li>• Regrouping in Addition, pp. 19–20</li> <li>• Writing Numbers in Columns to Subtract, p. 28</li> <li>• Regrouping in Subtraction, pp. 29–30</li> <li>• Multiplying by a One-Digit Factor, p. 38</li> <li>• Regrouping When You Multiply, p. 39</li> <li>• Dividing by a One-Digit Divisor, pp. 51–52</li> <li>• Finding a Remainder, p. 53</li> <li>• Regrouping After You Begin to Divide, p. 54</li> <li>• Using Long Division, p. 56</li> <li>• Dividing Greater Amounts, p. 57</li> <li>• Dividing by a Two-Digit Divisor, p. 58</li> </ul> <p><b>Achieving TABE Success - Level D</b></p> <ul style="list-style-type: none"> <li>• Adding with Integers, p. 75</li> <li>• Subtracting with Integers, p. 76</li> <li>• Multiplying and Dividing with Integers, p. 77</li> </ul>

	<p><b>Achieving TABE Success - Level A</b></p> <ul style="list-style-type: none"> <li>• Adding Integers, p. 70</li> <li>• Subtracting Integers, p. 71</li> <li>• Multiplying and Dividing Integers, p. 72</li> </ul> <p><b>EMPower- Operation Sense: Even More Fractions, Decimals, and Percents</b></p> <ul style="list-style-type: none"> <li>• L4 Multiplication- Repeated Addition and Portions of Amounts</li> </ul> <p><b>EMPower Plus- Everyday Number Sense: Mental Math and Visual Models</b></p> <ul style="list-style-type: none"> <li>• L5 Meanings and Methods for Subtraction</li> </ul> <p><b>Workplace Skills- Applied Mathematics</b></p> <ul style="list-style-type: none"> <li>• L1 Solve Problems with Math Operations</li> <li>• L4 Add and Subtract Negative Numbers</li> <li>• L11 Multiply Negative Numbers</li> <li>• L18 Divide Negative Numbers</li> </ul> <p><b>Number Power: Pre-Algebra</b></p> <ul style="list-style-type: none"> <li>• pp. 24–25</li> </ul> <p><b>Number Power: Algebra</b></p> <ul style="list-style-type: none"> <li>• pp. 12–24</li> </ul>
<p><b>L4</b> The Coordinate Grid</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• L4.5 The Coordinate Grid</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• pp. 150–152</li> </ul> <p><b>Achieving TABE Success - Level D</b></p> <ul style="list-style-type: none"> <li>• Locating Points on the Coordinate Plane, p. 126</li> </ul> <p><b>Achieving TABE Success - Level A</b></p> <ul style="list-style-type: none"> <li>• Working with the Coordinate Plane, p. 140</li> </ul> <p><b>Number Power: Transitions Math</b></p> <ul style="list-style-type: none"> <li>• pp. 65–68</li> </ul> <p><b>Number Power: Algebra</b></p> <ul style="list-style-type: none"> <li>• pp. 108–111</li> </ul>
<p><b>L5</b> Exponents and Roots</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• L8.1 Exponents</li> <li>• L8.2 Roots</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• L1.3 Compute with Exponents</li> <li>• L1.4 Compute with Roots</li> </ul> <p><b>Achieving TABE Success - Level A</b></p> <ul style="list-style-type: none"> <li>• Working with Exponents and Powers, pp. 13–14</li> <li>• Multiplying by Power of 10, p. 15</li> <li>• Finding a Square Root, p. 16</li> </ul> <p><b>Number Power: Transitions Math</b></p> <ul style="list-style-type: none"> <li>• pp. 5–12</li> </ul> <p><b>Number Power: Pre-Algebra</b></p> <ul style="list-style-type: none"> <li>• pp. 144–145</li> </ul> <p><b>Number Power: Algebra</b></p> <ul style="list-style-type: none"> <li>• pp. 26–31, 34–41</li> </ul>

**L6** Greatest Common Factor, Least Common Multiple, and Simplifying Fractions**HSE Basics**

- pp. 28–29, 76–78

**HSE Achieve**

- pp. 20–21

**Achieving TABE Success - Level M**

- Understanding Multiples, p. 40
- Finding Factors to Simplify Fractions, p. 66
- Renaming Whole Numbers to Fractions, p. 67
- Renaming Improper Fractions and Mixed Numbers, p. 68

**Achieving TABE Success - Level D**

- Reviewing Multiplications, p. 18
- Finding Common Factors and Simplifying Fractions, p. 59

**Achieving TABE Success - Level A**

- Finding Equivalent Fractions, p. 50
- Canceling Before You Multiply, p. 61

**Number Power: Transitions Math**

- pp. 2–3

**Number Power: Fractions, Decimals and Percents**

- pp. 15–20

**L7** Adding and Subtracting Fractions**HSE Basics**

- L3.2 Add and Subtract Fractions

**HSE Achieve**

- pp. 21, 141–142

**Achieving TABE Success - Level M**

- Adding and Subtracting Fractions, p. 71

**Achieving TABE Success - Level D**

- Adding and Subtracting Fractions with Like Denominators, p. 60
- Regrouping to Subtract Fractions, p. 61
- Finding Common Denominators, p. 62
- Adding and Subtracting Fractions with Unlike Denominators, p. 64

**Achieving TABE Success - Level A**

- Adding and Subtracting Like Fractions, p. 56
- Regrouping to Subtract Fractions, p. 57
- Adding and Subtracting Unlike Fractions, p. 58

**EMPower- Operation Sense: Even More Fractions, Decimals, and Percents**

- L2 Addition- Combining
- L7 Mixing It Up

**Workplace Skills- Applied Mathematics**

- L5 Add Fractions, Decimals, and Percents
- L6 Add Fractions in Common Terms
- L20 Calculate with Numbers in Various Forms

**Number Power: Fractions, Decimals and Percents**

- pp. 22–28, 30–36, 38–39

**L8** Multiplying and Dividing Fractions**HSE Basics**

- L3.3 Multiply and Divide Fractions

**HSE Achieve**

- p. 140

**Achieving TABE Success - Level M**

- Multiplying Fractions, p. 72
- Canceling Fractions before Multiplying, p. 73

**Achieving TABE Success - Level D**

- Multiplying Fractions, p. 65
- Canceling Before Multiplying Fractions, p. 66
- Finding Reciprocals, p. 67
- Dividing Fractions, p. 68
- Dividing with Whole Numbers or Mixed Numbers, p. 69

**Achieving TABE Success - Level A**

- Multiplying Fractions, p. 59
- Multiplying Mixed Numbers, p. 60
- Canceling Before You Multiply, p. 61
- Dividing to Find a Fraction of a Number, p. 62
- Dividing Fractions, p. 63

**EMPower- Operation Sense: Even More Fractions, Decimals, and Percents**

- L4 Multiplication- Repeated Addition and Portions of Amounts
- L5 Division- Splitting and Sharing
- L6 Division- How Many in \_\_\_?
- L7 Mixing It Up

**Workplace Skills- Applied Mathematics**

- L7 Multiply Mixed Numbers
- L20 Calculate with Numbers in Various Forms

**Number Power: Fractions, Decimals and Percents**

- pp. 40–44, 46–55

**L9** Decimal Operations**HSE Basics**

- L2.2 Add and Subtract Decimals
- L2.3 Multiply Decimals
- L2.4 Divide Decimals

**HSE Achieve**

- p. 55

**Achieving TABE Success - Level M**

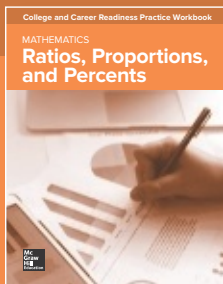
- Adding Decimals, p. 89
- Subtracting Decimals, p. 90
- Multiplying Decimals, p. 91

**Achieving TABE Success - Level D**

- Adding Decimals, p. 43
- Subtracting Decimals, p. 44
- Multiplying Decimals, pp. 45–46
- Dividing a Decimal by a Whole Number, p. 47
- Dividing by a Decimal, pp. 48–49



	<p><b>Achieving TABE Success - Level A</b></p> <ul style="list-style-type: none"> <li>• Adding Decimals, p. 36</li> <li>• Subtracting Decimals, p. 37</li> <li>• Multiplying Decimals, p. 38</li> <li>• Dividing a Decimal by a Whole Number, p. 42</li> <li>• Dividing by a Decimal, p. 43</li> <li>• Writing Zeros to Continue Dividing, p. 44</li> </ul> <p><b>EMPower- Operation Sense: Even More Fractions, Decimals, and Percents</b></p> <ul style="list-style-type: none"> <li>• L2 Addition- Combining</li> <li>• L4 Multiplication- Repeated Addition and Portions of Amounts</li> <li>• L5 Division- Splitting and Sharing</li> <li>• L6 Division- How Many in ___?</li> <li>• L7 Mixing It Up</li> </ul> <p><b>Workplace Skills- Applied Mathematics</b></p> <ul style="list-style-type: none"> <li>• L5 Add Fractions, Decimal, and Percents</li> <li>• L20 Calculate with Numbers in Various Forms</li> </ul> <p><b>Number Power: Fractions, Decimals and Percents</b></p> <ul style="list-style-type: none"> <li>• pp. 74–96</li> </ul>
L10 Scientific Notation	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• L8.3 Scientific Notation</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• pp. 32–33</li> </ul> <p><b>Achieving TABE Success - Level A</b></p> <ul style="list-style-type: none"> <li>• Writing Numbers in Scientific Notation, pp. 40–41</li> </ul> <p><b>Number Power: Transitions Math</b></p> <ul style="list-style-type: none"> <li>• p. 8</li> </ul> <p><b>Number Power: Algebra</b></p> <ul style="list-style-type: none"> <li>• p. 33</li> </ul>



## MATHEMATICS

# Ratios, Proportions, and Percents

Use the following *High School Equivalency Basics Mathematics*, *High School Equivalency Achieve Mathematics*, *Achieving TABE Success in Mathematics*, *EMPower*, *EMPower Plus*, *Workplace Skills – Applied Mathematics* and *Number Power* resources to provide additional practice for the following *College and Career Readiness Practice Workbook: Ratios, Proportions, and Percentages* lessons.

## Ratios, Proportions, and Percents Lessons

## McGraw-Hill Education Resources

### L1 Rates, Ratios, and Ratio Tables

#### HSE Basics

- L7.1 Ratios and Rates

#### HSE Achieve

- pp. 48–49

#### Achieving TABE Success - Level M

- Writing Ratios, p. 78

#### Achieving TABE Success - Level D

- Writing Ratios, p. 81

#### Achieving TABE Success - Level A

- Writing Ratios, p. 76

#### Workplace Skills- Applied Mathematics

- L8 Find Averages, Ratios, Proportions, and Rates

#### EMPower- Keeping Things in Proportion: Reasoning with Ratios

- L1 A Close Look at Supermarket Ads
- L3 Tasty Ratios

#### Number Power: Pre-Algebra

- pp. 44–45

#### Number Power: Algebra

- pp. 92–93

#### Number Power: Fractions, Decimals and Percents

- p. 159

### L2 Finding Proportions with Models

#### HSE Basics

- pp. 220–221

#### HSE Achieve

- p. 49

#### Achieving TABE Success - Level D

- Finding Equal Ratios, p. 82

#### EMPower- Keeping Things in Proportion: Reasoning with Ratios

- L1 A Close Look at Supermarket Ads
- L2 It's a Lot of Work!
- L3 Tasty Ratios
- L5 Mona Lisa, Is That You?

<p><b>L3</b> Unit Rates</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• pp. 215, 218–219</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• p. 49</li> </ul> <p><b>Achieving TABE Success - Level D</b></p> <ul style="list-style-type: none"> <li>• Finding a Unit Rate, p. 86</li> <li>• Using Unit Rates to Make Comparison, p. 87</li> </ul> <p><b>Achieving TABE Success - Level A</b></p> <ul style="list-style-type: none"> <li>• Finding a Unit Rate, p. 80</li> </ul> <p><b>Workplace Skills- Applied Mathematics</b></p> <ul style="list-style-type: none"> <li>• L8 Find Averages, Ratios, Proportions, and Rates</li> <li>• L16 Find the Best Deal</li> <li>• L25 Calculate Multiple Rates</li> </ul> <p><b>EMPower- Keeping Things in Proportion: Reasoning with Ratios</b></p> <ul style="list-style-type: none"> <li>• L3 Tasty Ratios</li> <li>• L7 Comparing Walks</li> </ul> <p><b>Number Power: Pre-Algebra</b></p> <ul style="list-style-type: none"> <li>• pp. 46–47</li> </ul> <p><b>Number Power: Fractions, Decimals and Percents</b></p> <ul style="list-style-type: none"> <li>• pp. 160–161</li> </ul> <p><b>Number Power: Analyzing Data</b></p> <ul style="list-style-type: none"> <li>• pp. 22–25</li> </ul>
<p><b>L4</b> Graphing Proportions</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• pp. 220–221</li> </ul> <p><b>EMPower- Keeping Things in Proportion: Reasoning with Ratios</b></p> <ul style="list-style-type: none"> <li>• L5 Mona Lisa, Is That You?</li> </ul>
<p><b>L5</b> Proportions and Scale Factor</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• L12.3 Scale Drawings and Measurement</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• p. 51</li> </ul> <p><b>EMPower- Keeping Things in Proportion: Reasoning with Ratios</b></p> <ul style="list-style-type: none"> <li>• L5 Mona Lisa, Is That You?</li> </ul> <p><b>EMPower- Everyday Number Sense: Mental Math and Visual Models</b></p> <ul style="list-style-type: none"> <li>• L11 String It Along</li> </ul> <p><b>EMPower Plus- Everyday Number Sense: Mental Math and Visual Models</b></p> <ul style="list-style-type: none"> <li>• L13 String It Along</li> </ul>

**L6** Proportional Relationships**HSE Basics**

- pp. 220–221

**HSE Achieve**

- pp. 49–50

**Achieving TABE Success - Level M**

- Recognizing a Proportion, p. 79
- Writing a Proportion, p. 80

**Achieving TABE Success - Level D**

- Identifying Proportions, p. 83
- Writing a Proportion, p. 84

**Achieving TABE Success - Level A**

- Identifying a Proportion, p. 77
- Writing a Proportion, p. 78

**Workplace Skills- Applied Mathematics**

- L29 Use Complex Ratios and Proportions

**EMPower- Keeping Things in Proportion: Reasoning with Ratios**

- L1 A Close Look at Supermarket Ads

**Number Power: Algebra**

- pp. 94–95

**Number Power: Pre-Algebra**

- pp. 48–49

**L7** Solving Proportions**HSE Basics**

- L7.3 Solve Proportions

**HSE Achieve**

- p. 50

**Achieving TABE Success - Level M**

- Solving a Proportion, p. 81

**Achieving TABE Success - Level D**

- Using Cross Products to Solve a Proportion, p. 85

**Achieving TABE Success - Level A**

- Finding the Missing Term in a Proportion, p. 79
- Using Proportion to Solve Word Problems, p. 81

**Workplace Skills- Applied Mathematics**

- L8 Find Averages, Ratios, Proportions, and Rates
- L16 Find the Best Deal

**EMPower- Keeping Things in Proportion: Reasoning with Ratios**

- L8 Playing With the Numbers

**Number Power: Pre-Algebra**

- pp. 50–51, 186–189

**Number Power: Algebra**

- pp. 96–97

<p><b>L8</b> Proportions and Percentages</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• pp. 238–239</li> <li>• L7.4 Introduction to Percents</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• p. 56</li> </ul> <p><b>Achieving TABE Success - Level D</b></p> <ul style="list-style-type: none"> <li>• Seeing Percent as a Part to Whole Relationship, p. 93</li> </ul> <p><b>Achieving TABE Success - Level A</b></p> <ul style="list-style-type: none"> <li>• Seeing Percent as a Part to Whole Relationship, p. 87</li> </ul> <p><b>Workplace Skills- Applied Mathematics</b></p> <ul style="list-style-type: none"> <li>• L29 Use Complex Ratios and Proportions</li> </ul> <p><b>EMPower- Keeping Things in Proportion: Reasoning with Ratios</b></p> <ul style="list-style-type: none"> <li>• L4 Another Way to Say It</li> </ul> <p><b>Number Power: Fractions, Decimals and Percents</b></p> <ul style="list-style-type: none"> <li>• p. 101</li> </ul>
<p><b>L9</b> Mental Math and Percentages</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• p. 343</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• p. 54</li> </ul> <p><b>Achieving TABE Success - Level D</b></p> <ul style="list-style-type: none"> <li>• Understanding Percent, p. 88</li> </ul> <p><b>Achieving TABE Success - Level A</b></p> <ul style="list-style-type: none"> <li>• Understanding Percent, p. 82</li> </ul> <p><b>EMPower- Keeping Things in Proportion: Reasoning with Ratios</b></p> <ul style="list-style-type: none"> <li>• L10 As If It Were 100</li> </ul> <p><b>EMPower-Split It Up: More Fractions, Decimals and Percents</b></p> <ul style="list-style-type: none"> <li>• L3 One Percent of What?</li> <li>• L5 Fold and Figure</li> </ul> <p><b>Number Power: Fractions, Decimals and Percents</b></p> <ul style="list-style-type: none"> <li>• pp. 106, 109, 111</li> </ul>
<p><b>L10</b> Percentage Equations</p>	<p><b>HSE Basics</b></p> <ul style="list-style-type: none"> <li>• L7.5 Solve Percent Problems</li> </ul> <p><b>HSE Achieve</b></p> <ul style="list-style-type: none"> <li>• pp. 56–57</li> </ul> <p><b>Achieving TABE Success - Level D</b></p> <ul style="list-style-type: none"> <li>• Finding a Percent of a Number, p. 91</li> <li>• Solving Three Types of Problems, p. 94</li> </ul> <p><b>Achieving TABE Success - Level A</b></p> <ul style="list-style-type: none"> <li>• Solving Three Types of Problems, pp. 88–89</li> <li>• Writing a Percent Problem as an Equation, p. 90</li> </ul> <p><b>Number Power: Fractions, Decimals and Percents</b></p> <ul style="list-style-type: none"> <li>• pp. 113–124</li> </ul>

**L11** Use Percentages in the Real World**HSE Basics**

- L7.6 Use Percents in the Real World

**HSE Achieve**

- pp. 57–59

**Achieving TABE Success in Mathematics- Level D**

- Using Ratio and Percent to Solve Word Problems, p. 96

**Achieving TABE Success in Mathematics- Level A**

- Using Percent to Solve Word Problems, p. 91

**Workplace Skills- Applied Mathematics**

- L28 Find the Best Deal Among Several Choices

**EMPower- Keeping Things in Proportion: Reasoning with Ratios**

- L4 Another Way to Say It

**EMPower-Split It Up: More Fractions, Decimals and Percents**

- L6 Give Me a Third
- L8 Where's the Fat?

**Number Power: Fractions, Decimals and Percents**

- pp. 156–157

**L12** Percent Change and Simple Interest**HSE Basics**

- L7.6 Use Percents in the Real World

**HSE Achieve**

- pp. 57–59

**Achieving TABE Success - Level D**

- Adding or Subtracting a Percent of the Whole, p. 92

**Workplace Skills- Applied Mathematics**

- L17 Calculate Prices with Discounts or Markups

**EMPower- Split It Up: More Fractions, Decimals and Percents**

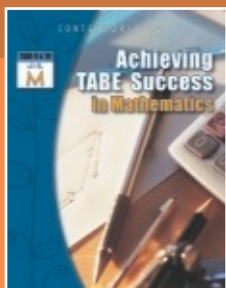
- L4 Taxes, Taxes, Taxes

**Number Power: Algebra**

- pp. 176–179

**Number Power: Fractions, Decimals and Percents**

- pp. 150–155



# Mathematics

Use these *College and Career Readiness (CCR) Practice Workbooks: Number Concepts, Basic Algebra, Intermediate Algebra, Ratios, Proportions and Percents, Data Analysis and Probability* and *Geometry and Measurement* lessons to provide additional practice for the following *Achieving TABE Success (ATS) in Mathematics (Level M)* lessons.

ATS in Mathematics Lesson	CCR Practice Workbooks
<b>The Number System</b>	
Comparing Whole Numbers	<b>NC L2</b> Comparing and Ordering Rational Numbers
<b>Addition</b>	
Adding Three or More Numbers	<b>NC L3</b> Integer Operations
Writing Numbers in Columns to Add	<b>NC L3</b> Integer Operations
Regrouping in Addition	<b>NC L3</b> Integer Operations
Reviewing Addition Concepts	<b>BA L3</b> Properties
<b>Subtraction</b>	
Regrouping in Subtraction	<b>NC L3</b> Integer Operations
Reviewing Subtraction Concepts	<b>BA L3</b> Properties
Writing Numbers in Columns to Subtract	<b>NC L3</b> Integer Operations
<b>Multiplication</b>	
Multiplying by a One-Digit Factor	<b>NC L3</b> Integer Operations
Regrouping When You Multiply	<b>NC L3</b> Integer Operations
Reviewing Basic Multiplication Concepts	<b>BA L3</b> Properties
Understanding Multiples	<b>NC L6</b> Greatest Common Factor, Least Common Multiple, and Simplifying Fractions
<b>Division</b>	
Dividing by a Two-Digit Divisor	<b>NC L3</b> Integer Operations
Dividing Greater Amounts	<b>NC L3</b> Integer Operations
Diving by a One-Digit Divisor	<b>NC L3</b> Integer Operations
Finding a Remainder	<b>NC L3</b> Integer Operations
Regrouping After You Begin to Divide	<b>NC L3</b> Integer Operations
Reviewing Basic Division Concepts	<b>BA L3</b> Properties
Reviewing Basic Division Facts	<b>BA L3</b> Properties
Using Long Division	<b>NC L3</b> Integer Operations

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**KEY:** **BA** = Basic Algebra    **DAP** = Data Analysis and Probability    **GM** = Geometry and Measurement    **IA** = Intermediate Algebra  
**NC** = Number Concepts    **RPP** = Ratios, Proportions, and Percents

Fractions	
Adding and Subtracting Fractions	<b>NC L7</b> Adding and Subtracting Fractions
Canceling Fractions before Multiplying	<b>NC L8</b> Multiplying and Dividing Fractions
Comparing Fractions	<b>NC L2</b> Comparing and Ordering Rational Numbers
Finding Factors to Simplify Fractions	<b>NC L6</b> Greatest Common Factor, Least Common Multiple, and Simplifying Fractions
Multiplying Fractions	<b>NC L8</b> Multiplying and Dividing Fractions
Recognizing a Proportion	<b>RPP L6</b> Proportional Relationships
Renaming Improper Fractions and Mixed Numbers	<b>NC L6</b> Greatest Common Factor, Least Common Multiple, and Simplifying Fractions
Renaming Whole Numbers to Fractions	<b>NC L6</b> Greatest Common Factor, Least Common Multiple, and Simplifying Fractions
Solving a Proportion	<b>RPP L7</b> Solving Proportions
Writing a Proportion	<b>RPP L6</b> Proportional Relationships
Writing Ratios	<b>RPP L1</b> Rates, Ratios, and Ratio Tables
Decimals	
Adding Decimals	<b>NC L9</b> Decimal Operations
Comparing Decimal Numbers	<b>NC L2</b> Comparing and Ordering Rational Numbers
Multiplying Decimals	<b>NC L9</b> Decimal Operations
Subtracting Decimals	<b>NC L9</b> Decimal Operations
Data Analysis	
Finding Mean, Median, and Mode	<b>DAP L1</b> Measures of Central Tendency
Reading a Bar Graph	<b>DAP L3</b> Displaying Data I
Reading a Circle Graph	<b>DAP L3</b> Displaying Data I
Reading a Double Bar Graph	<b>DAP L3</b> Displaying Data I
Reading a Line Graph	<b>DAP L8</b> Displaying Two-Variable Data
Reading a Table	<b>DAP L8</b> Displaying Two-Variable Data
Understanding Probability	<b>DAP L11</b> Determine Probability
Using a Price List	<b>DAP L8</b> Displaying Two-Variable Data
Using Numbers in a Table	<b>DAP L8</b> Displaying Two-Variable Data
Working with Graphs	<b>DAP L3</b> Displaying Data I

The following abbreviations represent each of the following CCR Practice Workbooks in the table

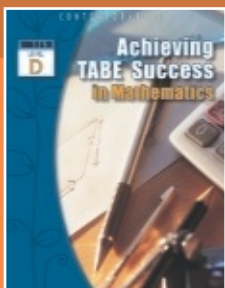
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Algebra	
Evaluating Expressions	<b>BA L4</b> Evaluating Expressions
Reviewing Basic Number Properties	<b>BA L3</b> Properties
Using Equations	<b>L1</b> Writing Linear Equations <b>BA L9</b> Writing Equations
Working with Functions	<b>BA L11</b> Functions
Writing Algebraic Expressions	<b>BA L1</b> Translating Variable Expressions <b>BA L5</b> Equivalent Expressions
Measurement	
Choosing an Appropriate Unit of Measure	<b>GM L1</b> Measuring and Converting Units
Converting Units Within the Customary System	<b>GM L1</b> Measuring and Converting Units
Converting Units Within the Metric System	<b>GM L1</b> Measuring and Converting Units
Finding Area	<b>GM L4</b> Perimeter and Area of Polygons
Finding Perimeter	<b>GM L4</b> Perimeter and Area of Polygons
Understanding Measurement	<b>GM L1</b> Measuring and Converting Units
Geometry	
Investigating Lines	<b>GM L2</b> Angles, Parallel lines, Transversals
Naming Angles	<b>GM L2</b> Angles, Parallel lines, Transversals
Naming Points, Line, Line Segments, and Rays	<b>GM L2</b> Angles, Parallel lines, Transversals
Recognizing Congruent Figures	<b>GM L9</b> Similar and Congruent Polygons
Recognizing Similar Figures	<b>GM L9</b> Similar and Congruent Polygons

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# Mathematics

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ATS in Mathematics Lesson	CCR Practice Workbooks
<b>The Number System</b>	
Comparing Whole Numbers	<b>NC L2</b> Comparing and Ordering Rational Numbers
<b>Computation with Whole Numbers</b>	
Reviewing Addition	<b>BA L3</b> Properties Working with Functions
Reviewing Multiplication	<b>NC L6</b> Greatest Common Factor, Least Common Multiple, and Simplifying Fractions
	<b>BA L3</b> Properties
<b>Decimals</b>	
Adding Decimals	<b>NC L9</b> Decimal Operations
Comparing Decimals	<b>NC L2</b> Comparing and Ordering Rational Numbers
Dividing a Decimal by a Whole Number	<b>NC L9</b> Decimal Operations
Dividing by a Decimal	<b>NC L9</b> Decimal Operations
Multiplying Decimals	<b>NC L9</b> Decimal Operations
Subtracting Decimals	<b>NC L9</b> Decimal Operations
<b>Fractions</b>	
Adding and Subtracting Fractions with Like Denominators	<b>NC L7</b> Adding and Subtracting Fractions
Adding and Subtracting Fractions with Unlike Denominators	<b>NC L7</b> Adding and Subtracting Fractions
Canceling Before Multiplying Fractions	<b>NC L8</b> Multiplying and Dividing Fractions
Comparing and Ordering Unlike Fractions	<b>NC L2</b> Comparing and Ordering Rational Numbers
Comparing Fractions	<b>NC L2</b> Comparing and Ordering Rational Numbers
Dividing Fractions	<b>NC L8</b> Multiplying and Dividing Fractions
Dividing with Whole Numbers or Mixed Numbers	<b>NC L8</b> Multiplying and Dividing Fractions
Finding Common Denominators	<b>NC L7</b> Adding and Subtracting Fractions
Finding Common Factors and Simplifying Fractions	<b>NC L6</b> Greatest Common Factor, Least Common Multiple, and Simplifying Fractions

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**ATS in Mathematics Lesson**
**CCR Practice Workbooks**

Finding Reciprocals	<b>NC L8</b> Multiplying and Dividing Fractions
Multiplying Fractions	<b>NC L8</b> Multiplying and Dividing Fractions
Regrouping to Subtract Fractions	<b>NC L7</b> Adding and Subtracting Fractions
<b>Integers</b>	
Adding with Integers	<b>NC L3</b> Integer Operations
Multiplying and Dividing with Integers	<b>NC L3</b> Integer Operations
Subtracting with Integers	<b>NC L3</b> Integer Operations
Understanding Integers	<b>NC L1</b> The Real Number System, Integers, and Absolute Value
Working with Absolute Value	<b>NC L1</b> The Real Number System, Integers, and Absolute Value
<b>Ratio, Proportion, and Percent</b>	
Adding or Subtracting a Percent of the Whole	<b>RPP L12</b> Percent Change and Simple Interest
Finding a Percent of a Number	<b>RPP L10</b> Percentage Equations
Finding a Unit Rate	<b>RPP L3</b> Unit Rates
Finding Equal Ratios	<b>RPP L2</b> Finding Proportions with Models
Identifying Proportions	<b>RPP L6</b> Proportional Relationships
Seeing Percent as a Part to Whole Relationship	<b>RPP L8</b> Proportions and Percentages
Solving Three Types of Problems	<b>RPP L10</b> Percentage Equations
Understanding Percent	<b>RPP L9</b> Mental Math and Percentages
Using Cross Products to Solve a Proportion	<b>RPP L7</b> Solving Proportions
Using Ratio and Percent to Solve Word Problems	<b>RPP L11</b> Use Percentages in the Real World
Using Unit Rates to Make Comparison	<b>RPP L3</b> Unit Rates
Writing a Proportion	<b>RPP L6</b> Proportional Relationships
Writing Ratios	<b>RPP L1</b> Rates, Ratios, and Ratio Tables
<b>Algebra</b>	
Evaluating Expressions	<b>BA L4</b> Evaluating Expressions
Interpreting Expressions and Equations	<b>BA L1</b> Translating Variable Expressions <b>BA L5</b> Equivalent Expressions <b>BA L9</b> Writing Equations
Reviewing Basic Properties of Number	<b>BA L3</b> Properties
Solving Equations	<b>BA L6</b> Solving Two-Step Equations

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**ATS in Mathematics Lesson**
**CCR Practice Workbooks**

Solving Inequalities	<b>BA L14</b> Solving One- Variable Inequalities
Using Equations to Solve Word Problems	<b>IA L1</b> Writing Linear Equations
	<b>BA L9</b> Writing Equations
Using Variables to Write Expressions	<b>BA L1</b> Translating Variable Expressions
Working with Functions	<b>BA L11</b> Functions
Writing Equations and Inequalities	<b>IA L1</b> Writing Linear Equations
	<b>BA L9</b> Writing Equations
<b>Geometry</b>	
Distinguishing Among Transformations	<b>GM L7</b> Transformations
Drawing Diagonals in a Polygon	<b>GM L2</b> Angles, Parallel lines, Transversals
Locating Points on the Coordinate Plane	<b>NC L4</b> The Coordinate Grid
Recognizing Relationships of Lines	<b>GM L2</b> Angles, Parallel lines, Transversals
Recognizing Similarity and Congruence	<b>GM L9</b> Similar and Congruent Polygons
Recognizing Types of Angles	<b>GM L2</b> Angles, Parallel lines, Transversals
Working with Three-Dimensional Figures	<b>GM L10</b> Surface Area
<b>Measurement</b>	
Comparing Customary and Metric Units	<b>GM L1</b> Measuring and Converting Units
Converting Units Within the Customary System	<b>GM L1</b> Measuring and Converting Units
Converting Units Within the Metric System	<b>GM L1</b> Measuring and Converting Units
Finding Area of Squares and Rectangles	<b>GM L4</b> Perimeter and Area of Polygons
Finding Circumference	<b>GM L5</b> Circumference and Area of a Circle
Finding Perimeter	<b>GM L4</b> Perimeter and Area of Polygons
Finding Surface Area	<b>GM L10</b> Surface Area
Finding the Area of a Circle	<b>GM L5</b> Circumference and Area of a Circle
Finding the Area of a Triangle	<b>GM L4</b> Perimeter and Area of Polygons
Finding Volume	<b>GM L11</b> Volume
Measuring to a Fractions of an inch	<b>GM L1</b> Measuring and Converting Units
Reviewing Customary Units of Measure	<b>GM L1</b> Measuring and Converting Units
Reviewing Metric Units of Measure	<b>GM L1</b> Measuring and Converting Units
Using a Customary Ruler	<b>GM L1</b> Measuring and Converting Units

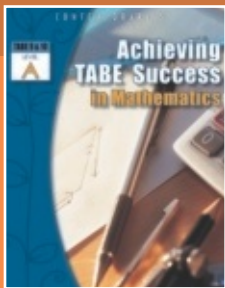
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Probability, Data and Statistics	
Finding Mean, Median, and Mode	<b>RPP L1</b> Measures of Central Tendency
Finding the Numbers Represented in a Circle Graph	<b>RPP L3</b> Displaying Data I
Gathering Data for a Survey	<b>RPP L7</b> Sampling and Comparing Populations
Interpreting Information in Tables	<b>RPP L8</b> Displaying Two-Variable Data
Investigating Probability	<b>RPP L11</b> Determine Probability
Reading a Bar Graph	<b>RPP L3</b> Displaying Data I
Reading a Circle Graph	<b>RPP L3</b> Displaying Data I
Reading a Line Graph	<b>RPP L8</b> Displaying Two-Variable Data
Reading a Table	<b>RPP L8</b> Displaying Two-Variable Data
Understanding Data in Bar Graphs	<b>RPP L3</b> Displaying Data I
Using a Price List	<b>RPP L8</b> Displaying Two-Variable Data
Using Tables to Make Comparisons	<b>RPP L8</b> Displaying Two-Variable Data

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# Mathematics

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ATS in Mathematics Lesson	CCR Practice Workbooks
<b>Whole Numbers</b>	
Finding a Square Root	<b>NC L5</b> Exponents and Roots
	<b>IA L7</b> Radicals
Following Order of Operations	<b>BA L2</b> Order of Operations
	<b>BA L5</b> Equivalent Expressions
Multiplying by Power of 10	<b>NC L5</b> Exponents and Roots
	<b>IA L5</b> Exponents
Reviewing Basic Addition Facts	<b>BA L3</b> Properties
Reviewing Basic Multiplication Facts	<b>BA L3</b> Properties
Working with Exponents and Powers	<b>NC L5</b> Exponents and Roots
	<b>IA L5</b> Exponents
<b>Decimals</b>	
Adding Decimals	<b>NC L9</b> Decimal Operations
Comparing and Ordering Decimals	<b>NC L2</b> Comparing and Ordering Rational Numbers
Dividing a Decimal by a Whole Number	<b>NC L9</b> Decimal Operations
Dividing by a Decimal	<b>NC L9</b> Decimal Operations
Multiplying Decimals	<b>NC L9</b> Decimal Operations
Subtracting Decimals	<b>NC L9</b> Decimal Operations
Writing Numbers in Scientific Notation	<b>NC L10</b> Scientific Notation
Writing Zeros to Continue Dividing	<b>NC L9</b> Decimal Operations
<b>Fractions</b>	
Adding and Subtracting Like Fractions	<b>NC L7</b> Adding and Subtracting Fractions
Adding and Subtracting Unlike Fractions	<b>NC L7</b> Adding and Subtracting Fractions
Canceling Before You Multiply	<b>NC L6</b> Greatest Common Factor, Least Common Multiple, and Simplifying Fractions
	<b>NC L8</b> Multiplying and Dividing Fractions
Comparing and Ordering Fractions	<b>NC L2</b> Comparing and Ordering Rational Numbers

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**ATS in Mathematics Lesson**
**CCR Practice Workbooks**

Dividing Fractions	<b>NC L8</b> Multiplying and Dividing Fractions
Dividing to Find a Fraction of a Number	<b>NC L8</b> Multiplying and Dividing Fractions
Finding Equivalent Fractions	<b>NC L6</b> Greatest Common Factor, Least Common Multiple, and Simplifying Fractions
Multiplying Fractions	<b>NC L8</b> Multiplying and Dividing Fractions
Multiplying Mixed Numbers	<b>NC L8</b> Multiplying and Dividing Fractions
Regrouping to Subtract Fractions	<b>NC L7</b> Adding and Subtracting Fractions
<b>Integers</b>	
Adding Integers	<b>NC L3</b> Integer Operations
Multiplying and Dividing Integers	<b>NC L3</b> Integer Operations
Reviewing Positive and Negative Numbers	<b>NC L1</b> The Real Number System, Integers, and Absolute Value
Subtracting Integers	<b>NC L3</b> Integer Operations
Working with Absolute Value	<b>NC L1</b> The Real Number System, Integers, and Absolute Value
<b>Ratio, Proportion, and Percent</b>	
Finding a Unit Rate	<b>RPP L3</b> Unit Rates
Finding the Missing Term in a Proportion	<b>RPP L7</b> Solving Proportions
Identifying a Proportion	<b>RPP L6</b> Proportional Relationships
Seeing Percent as a Part to Whole Relationship	<b>RPP L8</b> Proportions and Percentages
Solving Three Types of Problems	<b>RPP L10</b> Percentage Equations
Understanding Percent	<b>RPP L9</b> Mental Math and Percentages
Using Percent to Solve Word Problems	<b>RPP L11</b> Use Percentages in the Real World
Using Proportion to Solve Word Problems	<b>RPP L7</b> Solving Proportions
Writing a Percent Problem as an Equation	<b>RPP L10</b> Percentage Equations
Writing a Proportion	<b>RPP L6</b> Proportional Relationships
Writing Ratios	<b>RPP L1</b> Rates, Ratios, and Ratio Tables
<b>Probability, Statistics, and Data Analysis</b>	
Finding Mean, Median, and Mode	<b>DAP L1</b> Measures of Central Tendency
Finding Percent of Change in a Graph	<b>DAP L3</b> Displaying Data I
Gathering Data for a Survey	<b>DAP L7</b> Sampling and Comparing Populations
Identifying Trends and Making Predictions	<b>DAP L8</b> Displaying Two-Variable Data
Investigating Probability	<b>DAP L11</b> Determine Probability

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Reading a Bar Graph	<b>DAP L3</b> Displaying Data I
Reading a Circle Graph	<b>DAP L3</b> Displaying Data I
Reading a Complex Table or Chart	<b>DAP L8</b> Displaying Two-Variable Data
Reading a Double Bar Graph	<b>DAP L3</b> Displaying Data I
Reading a Line Graph	<b>DAP L8</b> Displaying Two-Variable Data
Reading a Table	<b>DAP L8</b> Displaying Two-Variable Data
<b>Algebra</b>	
Combining Terms	<b>IA L8</b> Adding and Subtracting Rational Expressions
	<b>IA L9</b> Multiplying Rational Expressions
	<b>IA L16</b> Simplifying and Dividing Rational Expressions
	<b>BA L7</b> Combining Like Terms
Evaluating Algebraic Expressions	<b>BA L4</b> Evaluating Expressions
Simplifying Equations that Contain Fractions	<b>BA L8</b> Solving Multi-Step Equations
Solving Equations with More than One Step	<b>BA L6</b> Solving Two-Step Equations
	<b>BA L8</b> Solving Multi-Step Equations
Solving Inequalities	<b>BA L14</b> Solving One- Variable Inequalities
Using Equations to Solve Word Problems	<b>IA L1</b> Writing Linear Equations
	<b>BA L9</b> Writing Equations
Using Formulas	<b>BA L10</b> Solving for a Variable/Rearranging Formulas
Using the Distributive Property to Solve Word Problems	<b>BA L8</b> Solving Multi-Step Equations
Using Variables in Algebraic Expressions	<b>BA L1</b> Translating Variable Expressions
Working with Functions	<b>BA L11</b> Functions
Writing Algebraic Equations and Inequalities	<b>IA L1</b> Writing Linear Equations
	<b>BA L9</b> Writing Equations
<b>Geometry</b>	
Classifying Angles	<b>GM L2</b> Angles, Parallel lines, Transversals
Recognizing Corresponding Angles	<b>GM L2</b> Angles, Parallel lines, Transversals
Recognizing Relationships Between Lines	<b>GM L2</b> Angles, Parallel lines, Transversals
Understanding Transformations	<b>GM L7</b> Transformations
Using Angle Relationships	<b>GM L2</b> Angles, Parallel lines, Transversals

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Using Pythagorean Theorem	<b>GM L3</b> Pythagorean Theorem
Working with the Coordinate Plane	<b>NC L4</b> The Coordinate Grid
<b>Measurement</b>	
Converting Between Customary and Metric Units	<b>GM L1</b> Measuring and Converting Units
Converting Units Within the Customary System	<b>GM L1</b> Measuring and Converting Units
Converting Units Within the Metric System	<b>GM L1</b> Measuring and Converting Units
Finding Area	<b>GM L4</b> Perimeter and Area of Polygons <b>GM L5</b> Circumference and Area of a Circle
Finding Circumference	<b>GM L5</b> Circumference and Area of a Circle
Finding Perimeter	<b>GM L4</b> Perimeter and Area of Polygons <b>GM L6</b> Area and Perimeter of Composite Shapes
Finding Volume	<b>GM L11</b> Volume
Reviewing Customary Units of Measure	<b>GM L1</b> Measuring and Converting Units
Reviewing the Metric System	<b>GM L1</b> Measuring and Converting Units
Using a Ruler	<b>GM L1</b> Measuring and Converting Units

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# Mathematics

Use these *College and Career Readiness (CCR) Practice Workbooks: Ratios, Proportions and Percents* and *Geometry and Measurement* lessons to provide additional practice for the following *EMPower-Keeping Things In Proportion: Reasoning with Ratios* lessons.

EMPower Lesson	CCR Practice Workbooks
<b>L1</b> A Close Look at Supermarket Ads	<b>RPP L1</b> Rates, Ratios, and Ratio Tables <b>RPP L2</b> Finding Proportions with Models <b>RPP L6</b> Proportional Relationships
<b>L2</b> It's a Lot of Work!	<b>RPP L2</b> Finding Proportions with Models
<b>L3</b> Tasty Ratios	<b>RPP L1</b> Rates, Ratios, and Ratio Tables <b>RPP L2</b> Finding Proportions with Models <b>RPP L3</b> Unit Rates
<b>L4</b> Another Way to Say It	<b>RPP L8</b> Proportions and Percentages <b>RPP L11</b> Use Percentages in the Real World
<b>L5</b> Mona Lisa, Is That You?	<b>RPP L2</b> Finding Proportions with Models <b>RPP L4</b> Graphing Proportions <b>RPP L5</b> Proportions and Scale Factor
	<b>GM L8</b> Scale Drawings and Measurement
<b>L6</b> Redesigning Your Calculator	<b>GM L9</b> Similar and Congruent Polygons
<b>L7</b> Comparing Walks	<b>RPP L3</b> Unit Rates
<b>L8</b> Playing With the Numbers	<b>RPP L7</b> Solving Proportions
<b>L10</b> As If It Were 100	<b>RPP L9</b> Mental Math and Percentages

The following abbreviations represent each of the following CCR Practice Workbooks in the table

**KEY:** **GM** = Geometry and Measurement      **RPP** = Ratios, Proportions, and Percents



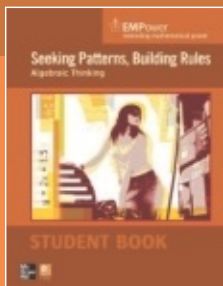
# Mathematics

Use these *College and Career Readiness (CCR) Practice Workbooks: Basic Algebra and Geometry and Measurement* lessons to provide additional practice for the following *EMPower-Over, Around, and Within: Geometry and Measurement* lessons.

EMPower Lesson	CCR Practice Workbooks
L2 Get It Right	GM L2 Angles, Parallel lines, Transversals
L3 Get It Straight	GM L2 Angles, Parallel lines, Transversals
L4 Giant Size	GM L4 Perimeter and Area of Polygons GM L9 Similar and Congruent Polygons
L5 Line Up by Size	GM L4 Perimeter and Area of Polygons
L6 Combing Rectangles	GM L4 Perimeter and Area of Polygons GM L6 Area and Perimeter of Composite Shapes
L7 Disappearing Grid Lines	GM L4 Perimeter and Area of Polygons BA L10 Solving for a Variable/Rearranging Formulas
L8 Conversion Experiences	GM L1 Measuring and Converting Units
L9 Squarely in English	GM L1 Measuring and Converting Units
L10 Scale Down	GM L8 Scale Drawings and Measurement
L11 Filling the Room	GM L11 Volume
L12 Cheese Cubes, Anyone?	GM L11 Volume
L13 On the Surface	GM L10 Surface Area

The following abbreviations represent each of the following CCR Practice Workbooks in the table

KEY: GM = Geometry and Measurement BA = Basic Algebra



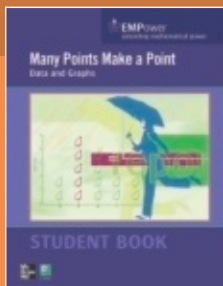
# Mathematics

Use these *College and Career Readiness (CCR) Practice Workbooks: Basic Algebra, Geometry and Measurement, and Intermediate Algebra* lessons to provide additional practice for the following EMPOWER-Seeking Patterns, Building Rules: Algebraic Thinking lessons.

EMPOWER Lesson	CCR Practice Workbooks
<b>L1</b> Guess My Rule	<b>BA</b> <b>L9</b> Writing Equations
	<b>IA</b> <b>L1</b> Writing Linear Equations
<b>L6</b> Circle Patterns	<b>GM</b> <b>L5</b> Circumference and Area of a Circle
<b>L7</b> What Is the Message?	<b>BA</b> <b>L5</b> Equivalent Expressions
	<b>BA</b> <b>L9</b> Writing Equations
	<b>IA</b> <b>L1</b> Writing Linear Equations
<b>L10</b> Signs of Change	<b>BA</b> <b>L12</b> Rate of Change and Slope
<b>L11</b> Rising Gas Prices	<b>BA</b> <b>L12</b> Rate of Change and Slope
	<b>IA</b> <b>L5</b> Exponents

The following abbreviations represent each of the following CCR Practice Workbooks in the table

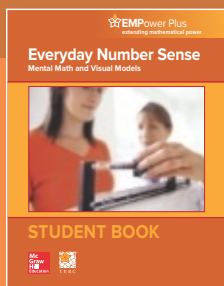
**KEY:** **GM** = Geometry and Measurement    **BA** = Basic Algebra    **IA** = Intermediate Algebra



# Mathematics

Use these *College and Career Readiness (CCR) Practice Workbook: Data Analysis and Probability* lessons to provide additional practice for the following *EMPower- Many Points Make a Point: Data and Graphs* lessons.

EMPower Lesson	CCR Practice Workbooks
L1 Countries in Our Closets	L8 Displaying Two-Variable Data
L2 Most of Us Eat	L7 Sampling and Comparing Populations
L3 Displaying Data in a New Way	L3 Displaying Data I
L4 A Closer Look at Circle Graphs	L4 Displaying Data II
L5 Sketch This	L3 Displaying Data I
L6 Roller-Coaster Rides	L8 Displaying Two-Variable Data
L7 A Mean Idea	L1 Measures of Central Tendency
L8 Mystery Cities	L8 Displaying Two-Variable Data
L9 Median	L1 Measures of Central Tendency
L10 Stock Prices	L3 Displaying Data I



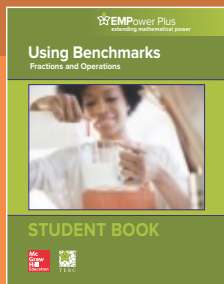
# Mathematics

Use these *College and Career Readiness (CCR) Practice Workbooks: Ratios, Proportions and Percents, Number Concepts, Basic Algebra and Intermediate Algebra* lessons to provide additional practice for the following *EMPowerPlus-Everyday Number Sense: Mental Math and Visual Models* lessons.

EMPowerPlus Lesson	CCR Practice Workbooks
<b>L3</b> Traveling with Numbers	<b>NC L2</b> Comparing and Ordering Rational Numbers
<b>L5</b> Meanings and Methods for Subtraction	<b>NC L3</b> Integer Operations
<b>L6</b> Extending the Line	<b>NC L2</b> Comparing and Ordering Rational Numbers
<b>L9</b> Patterns and Order	<b>BA L2</b> Order of Operations
<b>L10</b> Picture This	<b>BA L1</b> Translating Variable Expressions
	<b>BA L5</b> Equivalent Expressions
<b>L11</b> What's the Story?	<b>BA L9</b> Writing Equations
	<b>IA L5</b> Exponents
<b>L13</b> String It Along	<b>RPP L5</b> Proportions and Scale Factor

The following abbreviations represent each of the following CCR Practice Workbooks in the table

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# Mathematics

Use these *College and Career Readiness (CCR) Practice Workbook: Number Concepts* lessons to provide additional practice for the following *EMPowerPlus- Using Benchmarks: Fractions and Operations* lessons.

## EMPowerPlus Lesson

## CCR Practice Workbooks

<b>L6</b> Equal Measures	<b>L2</b> Comparing and Ordering Rational Numbers
<b>L7</b> Visualizing and Estimating Sums and Differences	<b>L2</b> Comparing and Ordering Rational Numbers



# Mathematics

Use these *College and Career Readiness (CCR) Practice Workbooks: Number Concepts, Basic Algebra, Intermediate Algebra, Ratios, Proportions and Percents, Data Analysis and Probability and Geometry and Measurement* lessons to provide additional practice for the following *High School Equivalency Basics Mathematics* lessons.

HSE Basics Lesson	CCR Practice Workbooks
L1.1 Place Value	NC L2 Comparing and Ordering Rational Numbers
L1.4 Factoring	BA L3 Properties
	NC L6 Greatest Common Factor, Least Common Multiple, and Simplifying Fractions
L1.6 Arithmetic Expressions	BA L2 Order of Operations
L2.1 Introduction to Decimals	NC L2 Comparing and Ordering Rational Numbers
L2.2 Add and Subtract Decimals	NC L9 Decimal Operations
L2.3 Multiply Decimals	NC L9 Decimal Operations
L2.4 Divide Decimals	NC L9 Decimal Operations
L3.1 Introduction to Fractions	NC L2 Comparing and Ordering Rational Numbers
	NC L6 Greatest Common Factor, Least Common Multiple, and Simplifying Fractions
L3.2 Add and Subtract Fractions	NC L7 Adding and Subtracting Fractions
L3.3 Multiply and Divide Fractions	NC L8 Multiplying and Dividing Fractions
L4.1 Introduction to Integers and Absolute Value	NC L1 The Real Number System, Integers, and Absolute Value
	NC L2 Comparing and Ordering Rational Numbers
L4.2 Add Integers	NC L3 Integer Operations
L4.3 Subtract Integers	NC L3 Integer Operations
L4.4 Multiply and Divide Integers	NC L3 Integer Operations
L4.5 The Coordinate Grid	NC L4 The Coordinate Grid
L5.1 Expressions	BA L1 Translating Variable Expressions
	BA L4 Evaluating Expressions
L5.2 Solve One-Step Equations	BA L3 Properties
	BA L9 Writing Equations
	BA L3 Properties
	BA L4 Evaluating Expressions
	BA L6 Solving Two-Step Equations
	BA L9 Writing Equations

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DAP = Data Analysis and Probability    GM = Geometry and Measurement



**HSE Basics Lesson**
**CCR Practice Workbooks**

<b>L5.4</b> Solve One- and Two-Step Inequalities	<b>BA L14</b> Solving One- Variable Inequalities
<b>L5.5</b> Identify Patterns	<b>BA L1</b> Translating Variable Expressions
<b>L6.1</b> Linear Equations	<b>BA L12</b> Rate of Change and Slope
	<b>IA L1</b> Writing Linear Equations
<b>L6.2</b> Graphing Linear Equations	<b>BA L12</b> Rate of Change and Slope
	<b>IA L1</b> Writing Linear Equations
<b>L6.3</b> Pairs of Linear Equations	<b>IA L2</b> Solving Systems of Equations by Graphing <b>IA L3</b> Solving Systems of Equations Using Substitution and Elimination
<b>L6.4</b> Scatter Plots	<b>IA L10</b> Interpreting Quadratic Equation Graphs
<b>L6.5</b> Functions	<b>BA L11</b> Functions
	<b>BA L13</b> Graphing Linear Functions
	<b>IA L6</b> Graphing Exponential Functions
<b>L7.1</b> Ratios and Rates	<b>RPP L1</b> Rates, Ratios, and Ratio Tables
	<b>RPP L3</b> Unit Rates
<b>L7.2</b> Unit Rates and Proportional Relationships	<b>RPP L2</b> Finding Proportions with Models
	<b>RPP L3</b> Unit Rates
	<b>RPP L4</b> Graphing Proportions
	<b>RPP L6</b> Proportional Relationships
<b>L7.3</b> Solve Proportions	<b>RPP L7</b> Solving Proportions
<b>L7.4</b> Introduction to Percents	<b>RPP L8</b> Proportions and Percentages
<b>L7.5</b> Solve Percent Problems	<b>RPP L8</b> Proportions and Percentages
	<b>RPP L10</b> Percentage Equations
<b>L7.6</b> Use Percents in the Real World	<b>RPP L11</b> Use Percentages in the Real World
	<b>RPP L12</b> Percent Change and Simple Interest
<b>L8.1</b> Exponents	<b>BA L2</b> Order of Operations
	<b>BA L4</b> Evaluating Expressions
	<b>IA L5</b> Exponents
<b>L8.2</b> Roots	<b>NC L5</b> Exponents and Roots
	<b>IA L7</b> Radicals
	<b>NC L5</b> Exponents and Roots
<b>L8.3</b> Scientific Notation	<b>NC L10</b> Scientific Notation
<b>L9.1</b> Measures of Central Tendency and Range	<b>DAP L1</b> Measures of Central Tendency
	<b>DAP L3</b> Displaying Data I

The following abbreviations represent each of the following CCR Practice Workbooks in the table

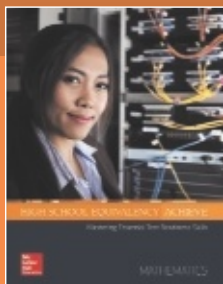
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**HSE Basics Lesson**
**CCR Practice Workbooks**

<b>L9.2</b> Graphs and Line Plots	<b>DAP L2</b> Box Plots <b>DAP L4</b> Displaying Data II <b>DAP L8</b> Displaying Two-Variable Data
<b>L10.1</b> Counting Methods	<b>DAP L10</b> Counting Techniques
<b>L10.2</b> Introduction to Probability	<b>DAP L11</b> Determine Probability
<b>L10.3</b> Compound Events	<b>DAP L11</b> Determine Probability
<b>L11.1</b> Customary Units	<b>GM L1</b> Measuring and Converting Units
<b>L11.2</b> Metric Units	<b>GM L1</b> Measuring and Converting Units
<b>L12.1</b> Geometric Figures	<b>GM L2</b> Angles, Parallel lines, Transversals
<b>L12.2</b> Perimeter and Circumference	<b>GM L4</b> Perimeter and Area of Polygons <b>GM L5</b> Circumference and Area of a Circle
<b>L12.3</b> Scale Drawings and Measurement	<b>GM L6</b> Area and Perimeter of Composite Shapes <b>GM L8</b> Scale Drawings and Measurement
	<b>RPP L5</b> Proportions and Scale Factor <b>RPP L9</b> Mental Math and Percentages
<b>L12.4</b> Area	<b>GM L4</b> Perimeter and Area of Polygons <b>GM L5</b> Circumference and Area of a Circle <b>GM L6</b> Area and Perimeter of Composite Shapes
<b>L12.5</b> Pythagorean Theorem	<b>BA L10</b> Solving for a Variable/Rearranging Formulas
	<b>GM L3</b> Pythagorean Theorem
	<b>IA L13</b> Solving Quadratics by Roots and Completing the Square
<b>L12.6</b> Geometric Solids and Volume	<b>GM L11</b> Volume
<b>L12.7</b> Volume of Cones, Cylinders, and Spheres	<b>GM L11</b> Volume

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# Mathematics

Use these *College and Career Readiness (CCR) Practice Workbooks: Number Concepts, Basic Algebra, Intermediate Algebra, Ratios, Proportions and Percents, Data Analysis and Probability and Geometry and Measurement* lessons to provide additional practice for the following *High School Equivalency Achieve Mathematics* lessons.

HSE Achieve Lesson	CCR Practice Workbooks
<b>L1.1</b> Order Rational Numbers on a Number Line	<p><b>NC L1</b> The Real Number System, Integers, and Absolute Value</p> <p><b>NC L2</b> Comparing and Ordering Rational Numbers</p>
<b>L1.2</b> Apply Number Properties	<p><b>BA L2</b> Order of Operations</p> <p><b>BA L3</b> Properties</p> <p><b>BA L5</b> Equivalent Expressions</p> <p><b>NC L3</b> Integer Operations</p> <p><b>NC L6</b> Greatest Common Factor, Least Common Multiple, and Simplifying Fractions</p> <p><b>NC L7</b> Adding and Subtracting Fractions</p>
<b>L1.3</b> Compute with Exponents	<p><b>BA L3</b> Properties</p> <p><b>IA L5</b> Exponents</p> <p><b>NC L5</b> Exponents and Roots</p> <p><b>NC L10</b> Scientific Notation</p>
<b>L1.4</b> Compute with Roots	<p><b>IA L5</b> Exponents</p> <p><b>IA L7</b> Radicals</p> <p><b>NC L5</b> Exponents and Roots</p>
<b>L2.1</b> Apply Ratio and Proportions	<p><b>GM L8</b> Scale Drawings and Measurement</p> <p><b>GM L9</b> Similar and Congruent Polygons</p> <p><b>RPP L1</b> Rates, Ratios, and Ratio Tables</p> <p><b>RPP L2</b> Finding Proportions with Models</p> <p><b>RPP L3</b> Unit Rates</p> <p><b>RPP L5</b> Proportions and Scale Factor</p> <p><b>RPP L6</b> Proportional Relationships</p> <p><b>RPP L7</b> Solving Proportions</p>
<b>L2.2</b> Calculate Real-World Percents	<p><b>NC L9</b> Decimal Operations</p> <p><b>RPP L8</b> Proportions and Percentages</p> <p><b>RPP L9</b> Mental Math and Percentages</p> <p><b>RPP L10</b> Percentage Equations</p> <p><b>RPP L11</b> Use Percentages in the Real World</p> <p><b>RPP L12</b> Percent Change and Simple Interest</p>
<b>L2.3</b> Use Counting Techniques	<b>DAP L10</b> Counting Techniques
<b>L2.4</b> Determine Probability	<b>DAP L11</b> Determine Probability

The following abbreviations represent each of the following CCR Practice Workbooks in the table

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<b>L3.1</b> Evaluate Linear Expressions	<b>BA L1</b> Translating Variable Expressions <b>BA L4</b> Evaluating Expressions <b>BA L7</b> Combining Like Terms
<b>L3.2</b> Solve Linear Equations	<b>BA L6</b> Solving Two-Step Equations <b>BA L7</b> Combining Like Terms <b>BA L8</b> Solving Multi-Step Equations <b>BA L9</b> Writing Equations  <b>IA L1</b> Writing Linear Equations
<b>L3.3</b> Solve Linear Inequalities	<b>BA L14</b> Solving One- Variable Inequalities
<b>L3.4</b> Use Expressions, Equations, and Inequalities to Solve Real-World Problems	<b>IA L1</b> Writing Linear Equations
<b>L4.2</b> Factor Polynomials	<b>IA L11</b> Factoring Polynomials <b>IA L12</b> Solving Polynomials by Factoring <b>IA L15</b> Multiple Representations of Quadratics
<b>L4.3</b> Solve Quadratic Equations	<b>IA L13</b> Solving Quadratics by Roots and Completing the Square <b>IA L14</b> Quadratic Formula
<b>L4.4</b> Evaluate Rational Expressions	<b>IA L8</b> Adding and Subtracting Rational Expressions <b>IA L9</b> Multiplying Rational Expressions <b>IA L16</b> Simplifying and Dividing Rational Expressions  <b>NC L7</b> Adding and Subtracting Fractions <b>NC L8</b> Multiplying and Dividing Fractions
<b>L5.1</b> Interpret Slope	<b>BA L12</b> Rate of Change and Slope  <b>NC L4</b> The Coordinate Grid
<b>L5.2</b> Write the Equation of a Line	<b>IA L1</b> Writing Linear Equations
<b>L5.4</b> Solve Systems of Linear Equations	<b>IA L2</b> Solving Systems of Equations by Graphing <b>IA L3</b> Solving Systems of Equations Using Substitution and Elimination
<b>L6.1</b> Identify a Function	<b>BA L11</b> Functions
<b>L6.2</b> Identify Linear and Quadratic Functions	<b>BA L11</b> Functions  <b>IA L6</b> Graphing Exponential Functions <b>IA L15</b> Multiple Representations of Quadratics
<b>L6.3</b> Identify Key Features of a Graph	<b>BA L11</b> Functions <b>BA L13</b> Graphing Linear Functions  <b>IA L10</b> Interpreting Quadratic Equation Graphs
<b>L6.4</b> Compare Functions	<b>BA L11</b> Functions  <b>IA L6</b> Graphing Exponential Functions <b>IA L15</b> Multiple Representations of Quadratics

The following abbreviations represent each of the following CCR Practice Workbooks in the table

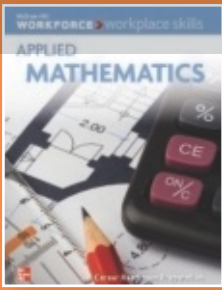
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**HSE Achieve Lesson**
**CCR Practice Workbooks**

<b>L7.1</b> Compute Perimeter and Area of Polygons	<b>BA L10</b> Solving for a Variable/Rearranging Formulas
	<b>GM L3</b> Pythagorean Theorem
	<b>GM L4</b> Perimeter and Area of Polygons
<b>L7.2</b> Compute Circumference and Area of Circles	<b>BA L10</b> Solving for a Variable/Rearranging Formulas
	<b>GM L5</b> Circumference and Area of a Circle
<b>L7.3</b> Compute Surface Area and Volume	<b>GM L10</b> Surface Area
	<b>GM L11</b> Volume
<b>L7.4</b> Compute Perimeter, Area, Surface Area, and Volume of Composite Figures	<b>GM L6</b> Area and Perimeter of Composite Shapes
	<b>GM L12</b> Surface Area and Volume of Composite Figures
<b>L8.1</b> Calculate Measures of Central Tendency	<b>DAP L1</b> Measures of Central Tendency
<b>L8.2</b> Display Categorical Data	<b>DAP L3</b> Displaying Data I
	<b>DAP L4</b> Displaying Data II
<b>L8.3</b> Display One-Variable Data	<b>DAP L2</b> Box Plots
	<b>DAP L3</b> Displaying Data I
	<b>DAP L6</b> Distribution of Data
<b>L8.4</b> Display Two-Variable Data	<b>DAP L8</b> Displaying Two-Variable Data
	<b>DAP L9</b> Scatter Plots

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# Mathematics

Use these *College and Career Readiness (CCR) Practice Workbook: Ratios, Proportions, and Percents, Basic Algebra, Number Concepts, and Geometry and Measurement* lessons to provide additional practice for the following *Workplace Skills- Applied Mathematics* lessons.

Workplace Skills Lesson	CCR Practice Workbooks
<b>L1</b> Solve Problems with Math Operations	<b>NC L3</b> Integer Operations
<b>L4</b> Add and Subtract Negative Numbers	<b>NC L3</b> Integer Operations
<b>L5</b> Add Fractions, Decimals, and Percents	<b>NC L7</b> Adding and Subtracting Fractions
<b>L6</b> Add Fractions in Common Terms	<b>NC L7</b> Adding and Subtracting Fractions
<b>L7</b> Multiply Mixed Numbers	<b>NC L8</b> Multiplying and Dividing Fractions
<b>L8</b> Find Averages, Ratios, Proportions, and Rates	<b>RPP L1</b> Rates, Ratios, and Ratio Tables <b>RPP L3</b> Unit Rates <b>RPP L7</b> Solving Proportions
<b>L9</b> Solve Problems Using One or Two Operations	<b>BA L6</b> Solving Two-Step Equations
<b>L10</b> Put Information in the Right Order	<b>BA L2</b> Order of Operations
<b>L11</b> Multiply Negative Numbers	<b>NC L3</b> Integer Operations
<b>L12</b> Calculate with Mixed Units	<b>GM L1</b> Measuring and Converting Units
<b>L13</b> Calculate Perimeter and Area	<b>GM L4</b> Perimeter and Area of Polygons <b>GM L5</b> Circumference and Area of a Circle
<b>L15</b> Convert Measurements	<b>GM L1</b> Measuring and Converting Units
<b>L16</b> Find the Best Deal	<b>RPP L3</b> Unit Rates <b>RPP L7</b> Solving Proportions
<b>L17</b> Calculate Prices with Discounts or Markups	<b>RPP L12</b> Percent Change and Simple Interest
<b>L18</b> Divide Negative Numbers	<b>NC L3</b> Integer Operations
<b>L20</b> Calculate with Numbers in Various Forms	<b>NC L7</b> Adding and Subtracting Fractions <b>NC L8</b> Multiplying and Dividing Fractions
<b>L21</b> Find Volume of Rectangular Solids	<b>GM L11</b> Volume
<b>L22</b> Rearrange a Formula	<b>GM L4</b> Perimeter and Area of Polygons <b>GM L5</b> Circumference and Area of a Circle <b>GM L11</b> Volume  <b>BA L10</b> Solving for a Variable/Rearranging Formulas

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**Workplace Skills Lesson**

**CCR Practice Workbooks**

<b>L23</b> Change from One Unit to Another in the Same Measurement System	<b>GM L1</b> Measuring and Converting Units
<b>L24</b> Convert from One System of Measurement to Another	<b>GM L1</b> Measuring and Converting Units
<b>L25</b> Calculate Multiple Rates	<b>RPP L3</b> Unit Rates
<b>L26</b> Apply Formula Rearrangements and Unit Conversions to Calculate Area	<b>BA L10</b> Solving for a Variable/Rearranging Formulas
	<b>GM L4</b> Perimeter and Area of Polygons
<b>L27</b> Convert Between Systems of Measurement	<b>GM L1</b> Measuring and Converting Units
<b>L28</b> Find the Best Deal Among Several Choices	<b>RPP L11</b> Use Percentages in the Real World
<b>L29</b> Use Complex Ratios and Proportions	<b>RPP L6</b> Proportional Relationships
<b>L29</b> Use Complex Ratios and Proportions	<b>RPP L8</b> Proportions and Percentages
<b>L30</b> Calculate Areas and Volumes of Spheres, Cylinders, or Cones	<b>GM L10</b> Surface Area
	<b>GM L11</b> Volume
<b>L31</b> Solve Problems with Nonlinear Functions and/or One or More Unknowns	<b>BA L11</b> Functions

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# McGraw-Hill Education College and Career Readiness Resources

The resources listed below are all student materials. Please note that for all programs listed except for the *Achieving TABE Success Series*, there are additional teacher resources available that include instructional guidance, activities, and suggestions for providing comprehensive coverage of the standards and skills being taught within the student lesson. For more information about all of these series, or to contact a sales representative, go to [www.mheducation.com](http://www.mheducation.com).

## Achieving TABE Success

Achieving TABE Success In Reading, Level M Workbook	978-0-07-704460-2	Achieving TABE Success In Mathematics, Level M Workbook	978-0-07-704468-8
Achieving TABE Success in Reading, Level M Reader	978-0-07-704464-0	Achieving TABE Success In Language, Level M Workbook	978-0-07-704456-5
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