


| Washington State ABE Mathematics Competencies (September 29, 2000) |  |
| :---: | :---: |
| 3.12.0 | Choose the correct operation to solve a variety of real-life word problems involving decimals and |
|  | Use financial services related to banking, budgeting, shopping and interpreting bills. |
| 3.12 | Display the capacity to |
| 3.13 .0 | Recognize, name and use metric and/or standard units to measure length, weight, volume and temperature. |
| Level 4 Exit Criteria: | Individual can perform all basic math functions with whole numbers, decimals and fractions; can interpret and solve simple algebraic equations, tables and graphs and can develop own tables and graphs; can use math in business transactions. |
| 4.1.0 | Identify the problem, apply an appropriate solution, and evaluate the process using ratio and proportion, to solve real-life problems. |
|  | Write a ratio of two quantities in simplest form. |
| 4.1 | Write and solve proportional equations. |
| 4. | Recognize when to use a proportion to solve a problem. |
| 4.2.0 | Communicate an understanding of the percent concept and percents relate to such consumer issues as purchasing, budgeting and managing finances. |
| 4.3.0 | Demonstrate when and how to use fractions, decimals, and percents interchangeably. |
| 4.4.0 | Identify and solve for the whole, part, and percent to make informed financial decisions. |
| 4.4.1 | Understand and apply the concept of percent of increase or decrease in order to analyze data such as that found in charts and graphs. |
| 4.4.2 | Calculate simple interest to make financial decisions. |
| $4.5 .0 \quad 4.5$ | Use formulas for perimeter, area and volume appropriately to select and evaluate goods and services. Convert among U.S. standard measurements (i.e., inches to feet, pounds to ounces, etc.). |
| 4.6.0 | Read, interpret, and use schedules, tables, and graphs to locate and use different modes of transportation and/or evaluate the effectiveness or efficiency of a process, procedure, or system. |
| Level 5 <br> Exit Criteria: | Individual can make mathematical estimates of time and space and can apply principles of geometry to measure angles, lines and surfaces; can also apply trigonometric functions. |

