**TEACHER RESOURCE LIBRARY**

Grade 6 ~ ***Number Systems: Fluency with Operations & Factors and Multiples (6.NS2-4)***

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| **Compute fluently with multi-digit numbers and find common factors and multiples.** | | | |
| **Resources** | **2. Fluently divide multi-digit numbers using the standard algorithm.** | **3. Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.** | **4. Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12. Use the distributive property to express a sum of two whole numbers 1–100 with a common factor as a multiple of a sum of two whole numbers with no common factor.** *For example,* *express 36 + 8 as 4 (9 + 2).* |
| **My Stuff** |  |  |  |
| **Resource Books** | **Elementary & Middle School Mathematics (VanDeWalle, 7th Ed.)**   * TEACHER CONTENT   + Division of Whole Numbers: p. 232-237 * STUDENT ACTIVITIES   + Division of Whole Numbers: p. 232-237 Figures 12.23-12.27 & problems in bold print   **Elementary & Middle School Mathematics (VanDeWalle, 6th Ed.)**   * TEACHER CONTENT   + Division of Whole Numbers: p. 236-241 * STUDENT ACTIVITIES   + Division of Whole Numbers: p. 236-241 Figures 13.24-13.28 & problems in bold print   **Elementary Mathematics for Teachers (Parker, Baldridge, 2004) ISBN 0-9748140-0-8**   * TEACHER CONTENT   + Division & Relationship to Multiplication p. 32-37 | **Elementary & Middle School Mathematics (VanDeWalle, 7th Ed.)**   * TEACHER CONTENT   + Computation with Decimals: p. 342-345 * STUDENT ACTIVITIES   + Computation with Decimals: p. 342-345 Activity 17.11-17.13 & problems in bold print   **Elementary & Middle School Mathematics (VanDeWalle, 6th Ed.)**   * TEACHER CONTENT   + Computation with Decimals: p. 346-350 * STUDENT ACTIVITIES   + Computation with Decimals: p. 346-350 Activity 18.12-18.14 & problems in bold print   **Elementary Mathematics for Teachers (Parker, Baldridge, 2004) ISBN 0-9748140-0-8**   * TEACHER CONTENT   + Decimals: p. 202-207 | **Elementary & Middle School Mathematics (VanDeWalle, 7th Ed.)**   * TEACHER CONTENT   + Properties of Multiplication and Division: p. 160-161   **Elementary & Middle School Mathematics (VanDeWalle, 7th Ed.)**   * TEACHER CONTENT   + Properties of Multiplication and Division: p. 157-158   **Elementary Mathematics for Teachers (Parker, Baldridge, 2004) ISBN 0-9748140-0-8**   * TEACHER CONTENT   + Greatest Common Factors and Least Common Multiples: p. 125-129 |
| **Web** | **Division of Whole Numbers**  TEACHER CONTENT   * **LearnAlberta - “Division of Whole Numbers” - Video Tutorial** –<http://www.learnalberta.ca/content/me5l/html/math5.html?goLesson=9>   STUDENT ACTIVITIES/LESSONS   * **BBC - Division Strategy Practice** - <http://www.bbc.co.uk/skillswise/numbers/wholenumbers/division/written/game.shtml> * **Division by a 2-Digit Number - Algorithm Applet** - <http://www.doubledivision.org/> | **Addition/Subtraction of Decimals**  STUDENT ACTIVITIES/LESSONS   * **NLVM - Base Block Decimals** - <http://nlvm.usu.edu/en/nav/frames_asid_264_g_3_t_1.html?from=category>\_g\_3\_t\_1.html * **NLVM - Circle 3 - Adding Decimals - Puzzle** -   <http://nlvm.usu.edu/en/nav/frames_asid_187_g_3_t_1.html?open=instructions&>from=category\_g\_3\_t\_1.html   * **LearnAlberta - “Solving Problems with Decimals” Video Lesson** -   <http://www.learnalberta.ca/content/mesg/html/math6web/index.html?page>=lessons&lesson=m6lessonshell05.swf   * **LearnAlberta - “Addition and Subtraction of Decimals” Video Lesson** -   <http://www.learnalberta.ca/content/me5l/html/math5.html?goLesson=7>   * **Math Play - Jeopardy - Computation Game** - <http://www.math-play.com/Decimals-Jeopardy/decimals-jeopardy.html>   **Multiplication/Division of Decimals**  TEACHER CONTENT   * **LearnAlberta - Multiplication and Division of Decimals - Video Tutorial** -   <http://www.learnalberta.ca/content/me5l/html/math5.html?goLesson=10> | **Greatest Common Factor and Least Common Multiple**  TEACHER CONTENT   * **Amby - Teacher Tutorial** - <http://amby.com/educate/math/>   STUDENT ACTIVITIES/LESSONS   * **Illuminations - “The Venn Factor” Lesson** - <http://illuminations.nctm.org/LessonDetail.aspx?id=L859> * **Illuminations - “Factor Findings” Lesson** - <http://illuminations.nctm.org/LessonDetail.aspx?id=L872> * **Illuminations - “Factor Trail Game” Lesson** - <http://illuminations.nctm.org/LessonDetail.aspx?id=L719> * **NLVM - Factor Tree** **- Interactive Applet** - <http://nlvm.usu.edu/en/nav/frames_asid_202_g_2_t_1.html?from> * **LearnAlberta Spy Guys - “Factors, Multiples, and Prime Factorization” Video Lesson** - <http://www.learnalberta.ca/content/mesg/html/math6web/index.html?page=lessons&lesson=m6lessonshell07.swf> * **IXL - GCF and LCM Word Problems - Assessment** - <http://www.ixl.com/math/grade-6/greatest-common-factor-word-problems>   **Distributive Property**  STUDENT ACTIVITIES/LESSONS   * **Study Stack - Matching Game** - <http://www.studystack.com/matching-1870> * **Illuminations - “Distributing and Factoring Using Area” Lesson** - <http://illuminations.nctm.org/LessonDetail.aspx?id=L744> |
| **Literature Connections** | The Phantom Tollbooth by Norton Juster (**See Elementary and Middle School Mathematics 7th Edition - page 345**) | | |