**Math**

**School: AsTumbo Elementary, 5th grade**

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**Three-part Lesson/Activities Packet**

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| **Lessons/Activities:****One Lesson/Activity per week in each area** | **Math** Topic(s)Organized by: K-1, 2-3, 4-5 |
| Week #3- Week #404/20-04-2404/27-05/01 | Topic: DivisionRepresent division of multi-digit whole numbers with base ten models (equal groups) and arrays/area models.Relate division of multi-digit numbers to multiplication of those numbers.Connect representations to a partial quotient algorithm.Use partial quotients to divide multi-digit whole numbers.Explain partial quotients.Solve problems using multi-digit division (including remainders).[CCSS.MATH.CONTENT.5.NBT.B.6](http://www.corestandards.org/Math/Content/5/NBT/B/6/)Find whole-number quotients of whole numbers with up to four-digit dividends and two-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models. |

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| Part 1: Parent/Student Information and Instructions for lesson | Part 2: Content- explanation of content, reading material, videos, powerpoint slides, handouts.  | Part 3: Engaging activities, practice activities, applications and extension activities. Handouts, graphic organizers, worksheets, projects.  |
| Subject: Week #3-4 | **Videos/handout review:****(WEEK 1)**Math Antics – Basic division<https://www.youtube.com/watch?v=KGMf314LUc0>Division with Double Digit Divisors Using a Partial Quotients Approach<https://www.youtube.com/watch?v=RIjIcFyRSjY>Area Model for Division<https://www.youtube.com/watch?v=6IOz0gH1Rn8>**Worksheets/handouts for student practice:**NOTE: It is important for students to show the process (show their work) of using place value strategies for solving division, in order to show mastery or identify where the student is struggling.Division Strategy: Partial Quotient<https://www.k-5mathteachingresources.com/support-files/division-strategy-partial-quotients-ver.1.pdf>Division with partial quotients (ANSWER KEY for parent’s reference only)<https://www.commoncoresheets.com/Math/Division/Division%20with%20Partial%20Quotients/English/1.pdf>Division with partial quotients (ANSWER KEY for parent’s reference only)<https://www.commoncoresheets.com/Math/Division/Division%20with%20Partial%20Quotients/English/2.pdf>Division with partial quotients (ANSWER KEY for parent’s reference only)<https://www.commoncoresheets.com/Math/Division/Division%20with%20Partial%20Quotients/English/3.pdf>Division with partial quotients (ANSWER KEY for parent’s reference only)<https://www.commoncoresheets.com/Math/Division/Division%20with%20Partial%20Quotients/English/4.pdf> | Division facts<https://www.math-aids.com/cgi/pdf_viewer_2.cgi?script_name=division_facts_table.pl&c_type=1&icolor=1&x=96&y=19>Division timed drills<https://www.dadsworksheets.com/worksheets/division-two-minute-tests.html>***APPLICATION:* (WEEK 2)***Note: Answer Keys for parent’s reference*Division word problems<https://www.k5learning.com/worksheets/math/grade-5-mixed-word-problems-a.pdf>Division word problems<https://www.k5learning.com/worksheets/math/grade-5-mixed-word-problems-c.pdf>Division word problems<https://www.k5learning.com/worksheets/math/grade-5-mixed-word-problems-d.pdf>Division word problems (multi-operation)<https://www.k5learning.com/worksheets/math/grade-5-word-problems-mixed-operations-b.pdf> |
| **Introduction to lesson**: Students will divide whole numbers by using place value strategies (partial products/area model) |
| **Why is this knowledge or skill important for me to learn?**Place value strategies help students build the foundation of number sense for division in order to lead to division using standard algorithm. |
| **What activities will I be doing to learn or practice this knowledge or skills?** 1. Watch video links to review the standard.
2. Use handouts to practice division using place value strategies.
3. Practice fluency of division facts.
4. Use place value strategies to solve division problems.
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| **What is included in this lesson packet?**Video links for reviewing the skill, worksheets/handouts to practice skill, and links to games/activities. |