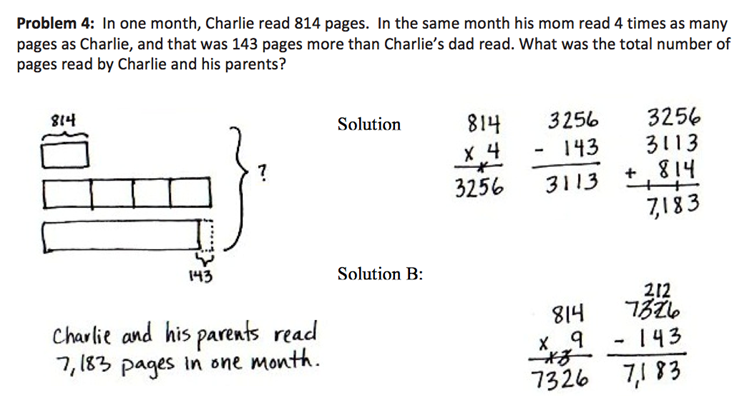
Topic D

Multiplication Word Problems

**4.OA.1, 4.OA.2, 4.OA.3, 4.NBT.5**

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| Focus Standard: | 4.OA.1 | Interpret a multiplication equation as a comparison, e.g., interpret 35 = 5 × 7 as a statement that 35 is 5 times as many as 7 and 7 times as many as 5. Represent verbal statements of multiplicative comparisons as multiplication equations. |
|  | 4.OA.2 | Multiply or divide to solve word problems involving multiplicative comparison, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem, distinguishing multiplicative comparison from additive comparison. (See CCLS Glossary, Table 2.) |
|  | 4.OA.3 | Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding. |
|  | 4.NBT.5 | Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models. |
| Instructional Days: | 2 |  |
| Coherence -Links from: | G3–M1 | Properties of Multiplication and Division and Solving Problems with Units of 2–5 and 10 |
| -Links to: | G3–M3 | Multiplication and Division with Units of 0, 1, 6–9, and Multiples of 10 |
| G5–M2 | Multi-Digit Whole Number and Decimal Fraction Operations |

Topic D gives students the opportunity to apply their new multiplication skills (**4.NBT.5**). In Lesson 12, students extend their work with multiplicative comparison from Topic A to solve real world problems (**4.OA.2**). As shown below, students use a combination of addition, subtraction, and multiplication to solve multi-step problems in Lesson 13 (**4.OA.3**).



Solution B:

Solution A:

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| A Teaching Sequence Towards Mastery of Multiplication Word Problems |
| Objective 1: Solve two-step word problems, including multiplicative comparison. (Lesson 12) |
| Objective 2: Use multiplication, addition, or subtraction to solve multi-step word problems. (Lesson 13) |