## Topic D

# Multiplication Word Problems 

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

| Focus Standard: | 4.OA. 1 | Interpret a multiplication equation as a comparison, e.g., interpret $35=5 \times 7$ as a <br> statement that 35 is 5 times as many as 7 and 7 times as many as 5 . Represent verbal <br> statements of multiplicative comparisons as multiplication equations. |
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|  | 4.OA.2 | Multiply or divide to solve word problems involving multiplicative comparison, e.g., by <br> using drawings and equations with a symbol for the unknown number to represent the <br> problem, distinguishing multiplicative comparison from additive comparison. (See <br> CCLS Glossary, Table 2.) |
|  | 4.OA.3 | Solve multistep word problems posed with whole numbers and having whole-number <br> answers using the four operations, including problems in which remainders must be <br> interpreted. Represent these problems using equations with a letter standing for the <br> unknown quantity. Assess the reasonableness of answers using mental computation <br> and estimation strategies including rounding. <br> Multiply a whole number of up to four digits by a one-digit whole number, and |
| 4.NBT.5 multiply two two-digit numbers, using strategies based on place value and the |  |  |

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).

Problem 4: In one month, Charlie read 814 pages. In the same month his mom read 4 times as many pages as Charlie, and that was 143 pages more than Charlie's dad read. What was the total number of pages read by Charlie and his parents?


Solution B:
Charlie and his parents read 7,183 pages in one month.


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)

