G4-M1-Lesson 13

> I don't have enough tens to subtract 5 tens from 3 tens. I decompose 1 hundred for 10 tens.

1. Use the standard algorithm to solve the following subtraction problems.

a.
```
   6, 5  6  7
-  1, 4  5  7
-----------
   5, 1  1  0
```

b.
```
      4  13
   6, 5̶  3̶  7
-  2, 4  5  7
-----------
   4, 0  8  0
```

> I look across the top number to see if I can subtract. I have enough units, so no regroupings! I just subtract like units. 7 ones minus 7 ones is 0 ones. I continue to subtract the number of units of tens, hundreds, and thousands.

> Now, I have 4 hundreds. I show this by crossing off the 5 and writing a 4 in the hundreds place instead. 10 tens + 3 tens = 13 tens. I show this by crossing off the 3 tens and writing 13 in the tens place instead.
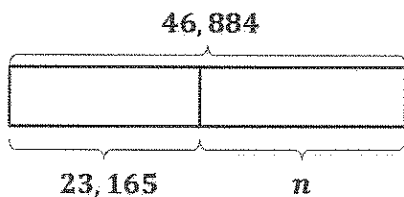
c. 3,532 – 921

```
   2   15
   3̶, 5̶  3  2
-      9  2  1
-----------
   2, 6  1  1
```

> Just like in Lesson 11, I write the problem in vertical form, being sure to line up the units.

2. What number must be added to 23,165 to result in a sum of 46,884?

> To solve a word problem, I use RDW: Read, Draw, Write. I read the problem. I draw a picture, like a tape diagram, and I write my answer as an equation and a statement.

$$23,165 + n = 46,884$$

```
                7  14
   4  6, 8  8̶  4̶
-  2  3, 1  6  5
-----------------
   2  3, 7  1  9
```

46,884

23,165   n

23,719 must be added to 23,165.

Lesson 13: Use place value understanding to decompose to smaller units once using the standard subtraction algorithm, and apply the algorithm to solve word problems using tape diagrams.

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Draw a tape diagram to model the problem. Use numbers to solve, and write your answer as a statement. Check your answer.

3. Mr. Swanson drove his car 5,654 miles. Mrs. Swanson drove her car some miles, too. If they drove 11,965 miles combined, how many miles did Mrs. Swanson drive?
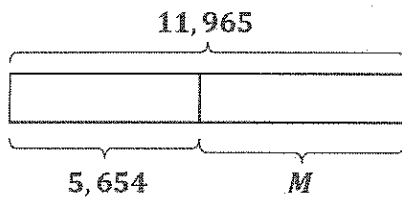
$$11,965 - 5,654 = M$$

```
   0  11
   1   1,  9  6  5
  −     5,  6  5  4
        6,  3  1  1
```

```
        6,  3  1  1
   +    5,  6  5  4
      1 1,  9  6  5
```

Mrs. Swanson drove 6,311 miles.

To check my answer, I add the difference to the known part. It equals the whole, so I subtracted correctly.

Lesson 13:   Use place value understanding to decompose to smaller units once using the standard subtraction algorithm, and apply the algorithm to solve word problems using tape diagrams.

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