G4-M1-Lesson 14

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

a.
$$
\begin{array}{ccccccc}
 & & \overset{15}{\cancel{5}} & & & \\
 & \overset{1}{\cancel{2}} & \overset{}{\cancel{5}} & \overset{12}{\cancel{2}} & \overset{4}{} & \overset{14}{\cancel{4}} & 7 \\
- & & 8 & 5, & 3 & 6 & 2 \\
\hline
 & 1 & 7 & 7, & 1 & 8 & 5 \\
\end{array}
$$

b.
$$
\begin{array}{ccccccc}
 & & & & \overset{9}{} & & \\
 & \overset{5}{\cancel{6}} & \overset{15}{\cancel{5}} & 7, & \overset{6}{\cancel{\cancel{0}}} & \overset{10}{\cancel{0}} & 8 \\
- & 5 & 7 & 6, & 3 & 4 & 3 \\
\hline
 & 8 & 0, & 6 & 6 & 5 \\
\end{array}
$$

> Am I ready to subtract? No! I don't have enough tens, thousands, or ten thousands.
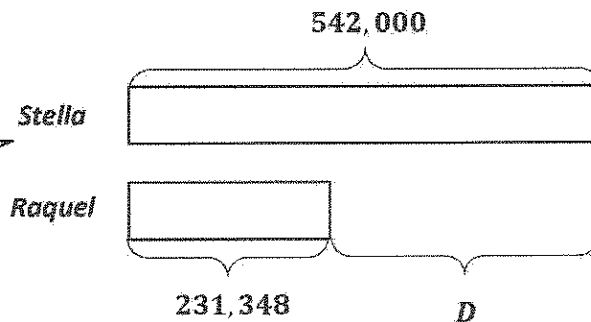
> After decomposing, I'm ready to subtract!

> There are not enough tens to subtract 4 tens.

> Once my values are greater in every place, I'm ready to subtract.

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

2. Stella had 542,000 visits to her website. Raquel had 231,348 visits to her website. How many more visits did Stella have than Raquel?

542,000

Stella

Raquel

> I draw a tape diagram. Stella had more visits, and so her tape is longer.

231,348   D

$D = 542,000 - 231,348$

$D = 310,652$

$$
\begin{array}{ccccccc}
 & & & \overset{9}{} & \overset{9}{} & & \\
 & & \overset{1}{} & \overset{10}{\cancel{0}} & \overset{10}{\cancel{0}} & \overset{10}{\cancel{0}} & \\
 & 5 & 4 & 2, & \cancel{0} & \cancel{0} & \cancel{0} \\
- & 2 & 3 & 1, & 3 & 4 & 8 \\
\hline
 & 3 & 1 & 0, & 6 & 5 & 2 \\
\end{array}
$$

$$
\begin{array}{ccccccc}
 & 3 & 1 & 0, & 6 & 5 & 2 \\
+ & 2 & 3 & 1, & 3 & 4 & 8 \\
 & & & & 1 & 1 & 1 \\
\hline
 & 5 & 4 & 2, & 0 & 0 & 0 \\
\end{array}
$$

Stella had 310,652 more visits than Raquel.

> I check my answer with addition. My answer is correct!

Lesson 14:   Use place value understanding to decompose to smaller units up to three times using the standard subtraction algorithm, and apply the algorithm to solve word problems using tape diagrams

EUREKA MATH