

G2-M4-Lesson 30

1. Linda and Keith solved $127 + 59$.

<p>Linda's work:</p> $\begin{array}{r} 127 \\ + 59 \\ \hline 16 \\ 70 \\ + 100 \\ \hline 186 \end{array}$	<p>Keith's work:</p> $\begin{array}{r} 127 \\ + 59 \\ \hline 186 \end{array}$
---	---

Linda solved using totals below, and Keith solved using new groups below, but they got the same answer!

Explain what is different about how Linda and Keith solved the problem.

Linda added the ones, tens, and hundreds by themselves to get the 3 parts: 16, 70, and 100. Then, she added those parts up to get 186. Keith renamed 16 ones as 1 ten 6 ones. Next, he added 2 tens plus 5 tens plus 1 ten, which equals 8 tens. Then, he added 1 hundred. They got the same answer!

2. Here is one way to solve $124 + 69$. Solve $124 + 69$ another way.

$\begin{array}{r} 124 \\ + 69 \\ \hline 193 \end{array}$	$\begin{array}{r} 1 \ 2 \ 4 \\ + \quad 6 \ 9 \\ \hline \quad 1 \ 3 \\ \quad 8 \ 0 \\ + \ 1 \ 0 \ 0 \\ \hline 1 \ 9 \ 3 \end{array}$
--	---

I can solve using totals below!

$$4 + 9 = 13$$

$$20 + 60 = 80$$

$$100 + 0 = 100$$

$$13 + 80 + 100 = 193$$

Explain how the two ways to solve $124 + 69$ are similar.

In the first problem, when you rename 13 ones, you can see that 1 hundred 8 tens 13 ones becomes 1 hundred 9 tens 3 ones. When I solve the problem another way, it is just like showing the 3 parts before renaming. 1 hundred 8 tens 13 ones = $100 + 80 + 13$. I can add the parts in any order and get the same total!