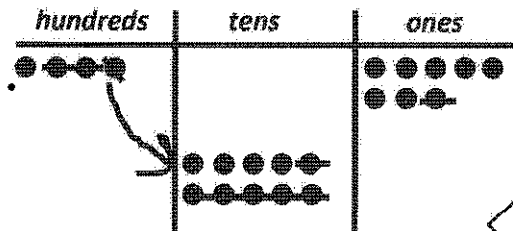


G2-M5-Lesson 16

1. Solve vertically or using mental math. Draw chips on the place value chart and unbundle if needed.

a. $408 - 261 = \underline{147}$

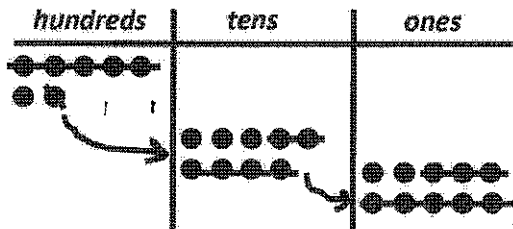
$$\begin{array}{r} 3 \quad 10 \\ 4 \quad 0 \quad 8 \\ - 2 \quad 6 \quad 1 \\ \hline 1 \quad 4 \quad 7 \end{array}$$



The vertical form shows what I did with the chips. I have enough ones to subtract in the ones place, but I need to unbundle 1 hundred to have enough tens in the tens place. Now I'm ready to subtract!

b. $700 - 568 = \underline{132}$

$$\begin{array}{r} 6 \quad 9 \quad 10 \\ 7 \quad 0 \quad 0 \\ - 5 \quad 6 \quad 8 \\ \hline 1 \quad 3 \quad 2 \end{array}$$



I see that both the tens and the ones are going to need more. I can unbundle a hundred in one step. 1 hundred is equal to 9 tens 10 ones. Now I have 6 hundreds 9 tens 10 ones. I show this with my chips and in the vertical form. Now, I am ready to subtract.

2. Emily said that $400 - 247$ is the same as $399 - 246$. Write an explanation using pictures, numbers, or words to prove Emily is correct.

I can use compensation. I notice that 400 is just 1 more than 399, and 247 is just 1 more than 246. So, the difference for each problem must be the same!

I can explain two different ways!

+1	399
+1	246

I can use the arrow way to show that the difference is the same. $400 - 247 = 153$, and $399 - 246 = 153$.

$$400 \xrightarrow{-200} 200 \xrightarrow{-40} 160 \xrightarrow{-7} 153$$

$$399 \xrightarrow{-200} 199 \xrightarrow{-40} 159 \xrightarrow{-6} 153$$