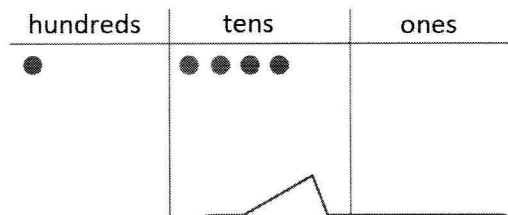## G2-M4-Lesson 14

1. Solve by writing the problem vertically. Check your result by drawing chips on the place value chart.
    Change 1 ten for 10 ones, when needed.

$140 - 12 = \underline{\quad 128 \quad}$

```
   1  4  0
-     1  2
_____
```

> I draw the magnifying glass so I remember to set the problem up to subtract.

hundreds	tens	ones
●	● ● ● ●	

> I draw chips to show the whole, 140, on my place value chart.

```
      3  10
   1  4̶  0̶
-     1  2
_____
```

> I can't subtract 2 ones from 0 ones, so I need to unbundle a ten. I show how I decompose 1 ten into 10 ones on my place value chart and in vertical form. Now I have 1 hundred 3 tens 10 ones.

hundreds	tens	ones
●	● ● ● ●	● ● ● ● ● / ● ● ● ● ●

```
      3  10
   1  4̶  0̶
-     1  2
_____
   1  2  8
```
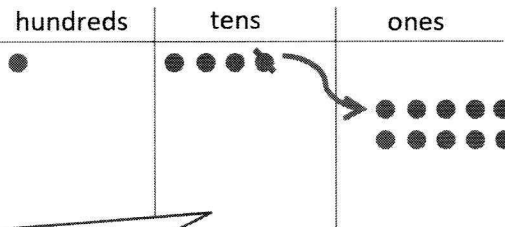
> Now I'm ready to subtract.
> 10 ones − 2 ones = 8 ones.
> 3 tens − 1 ten = 2 tens.
> 1 hundred − 0 hundreds = 1 hundred.
> 1 hundred 2 tens 8 ones is 128.

hundreds	tens	ones
●	● ● ● ●	● ● ● ● ● / ● ● ● ● ●

Lesson 14:   Represent subtraction with and without the decomposition when there
             is a three-digit minuend.

EUREKA MATH
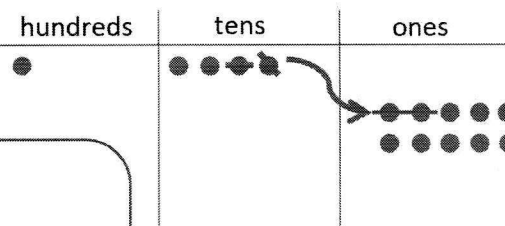
2. Solve and show your work. Draw a place value chart and chips, if needed.

a. Ana has 173 marbles. She has 27 more than Rico. How many marbles does Rico have?

A [173]

R [?]

Since Ana has more, her bar is longer than Rico's.

This space shows how much more Ana has than Rico.

27 *more*

I know the whole and one part. I can use the vertical form to subtract to find the missing part.

$$
\begin{array}{ccc}
 & 6 & 13 \\
1 & \cancel{7} & \cancel{3} \\
- & 2 & 7 \\
\hline
1 & 4 & 6
\end{array}
$$

I need to unbundle a ten. Now I have 1 hundred 6 tens 13 ones. I'm ready to subtract.

Rico has 146 marbles.

b. Rico gives 18 of his marbles to Diana. How many marbles does Rico have left?

146

I can draw a single bar to show the total number of Rico's marbles.

18 *gives*   ? *left*

Rico gives this part, 18, to Diana.

The other part is what Rico has left.

I can use the vertical form to subtract and solve.

$$
\begin{array}{ccc}
 & 3 & 16 \\
1 & \cancel{4} & \cancel{6} \\
- & 1 & 8 \\
\hline
1 & 2 & 8
\end{array}
$$

Rico has 128 marbles left.

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