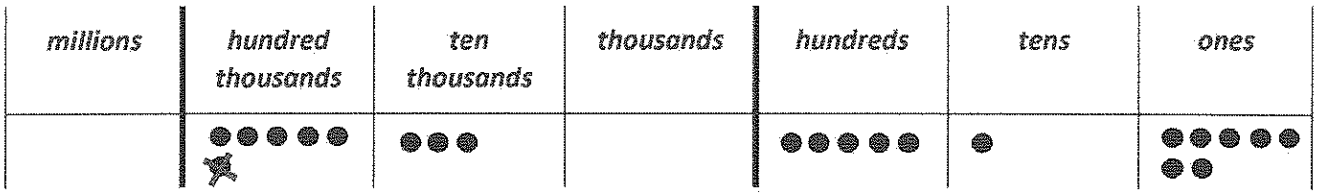
G4-M1-Lesson 6

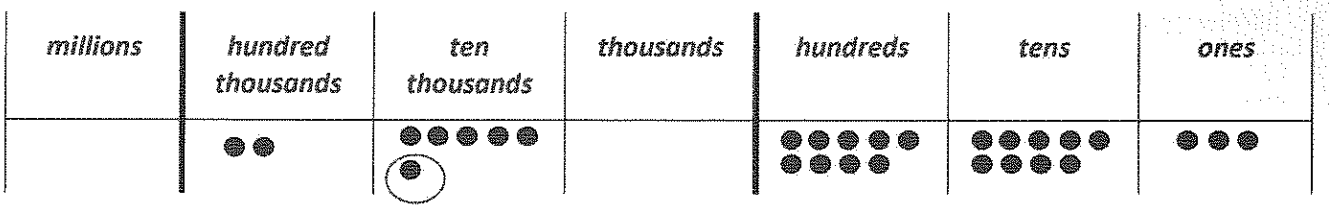
1. Label the place value chart. Use place value disks to find the sum or difference. Write the answer in standard form on the line.

   a. 100,000 less than six hundred thirty thousand, five hundred seventeen is 530,517.



After modeling 630,517, I cross off 1 hundred thousand disk. 100,000 less than 630,517 is 530,517.

   b. 260,993 is 10,000 more than 250,993.



To model 260,993 in comparison to 250,993, I add 1 ten thousand disk. 60,000 is 10,000 more than 50,000. Therefore, 260,993 is 10,000 more than 250,993.

2. Fill in the blank for this equation:

   17,082 – 1,000 = 16,082.

There are 17 thousands in 17,082. 1 thousand less than 17 thousand is 16 thousands.

3. Fill in the boxes to complete the patterns. Explain in pictures, numbers, or words how you found your answers.

245,975	345,975	445,975	545,975	645,975	745,975

Student Response 1:

I see that the hundred thousand unit increases. The other units remain the same. In the first number, there are 2 hundred thousands. Then, there are 4 hundred thousands and 6 hundred thousands. I can fill in the boxes with 3 hundred thousands, 5 hundred thousands, and 7 hundred thousands. Each number in the pattern increases by 1 hundred thousand each time.

I answer the question, "Are the numbers in the pattern growing or shrinking? By how much?"

Student Response 2:

The numbers increase by 100,000 each time.

hundred thousands	*ten thousands*	*thousands*	*hundreds*	*tens*	*ones*
2	4	5	9	7	5
3	4	5	9	7	5
4	4	5	9	7	5
5	4	5	9	7	5
6	4	5	9	7	5
7	4	5	9	7	5

$245,975 + 100,000 = 345,975$

$345,975 + 100,000 = 445,975$

$445,975 + 100,000 = 545,975$

$545,975 + 100,000 = 645,975$

$645,975 + 100,000 = 745,975$

I quickly write numerals instead of number disks. I can see clearly that the hundred thousands increase. The other values don't change.

I write a series of number sentences to show the same change each time. The rule of the pattern is "add 100,000."