Grade 6 – NUMERACY – LESSON 1

Getting to 1 000 000 – Visualizing and Decomposing Numbers

Numbers to 1 000 000 represent quantities that can be decomposed into 100 000s, 10 000s, 1000s, 100s, 10's and 1s.

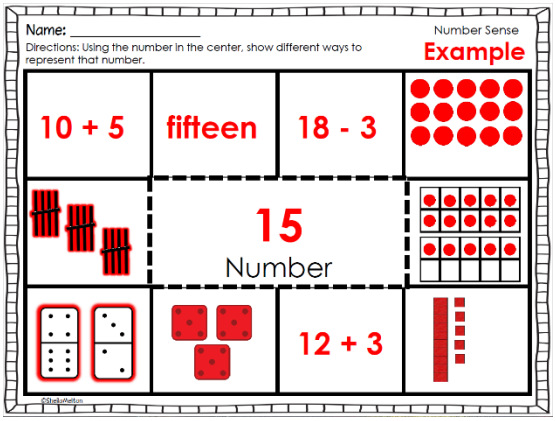
1. Choose a number for the centre of the graphic organizer: 10 000 or 500 000 or 1 000 000 or 2 500 000. What different ways can you represent the number? Try to think of at least five different ways to show that number—consider using symbols, pictures, words, grids/arrays, equations, etc.

2. Choose a number: 9999 or 10 500 or 250 450 or 1 000 000. What ten different ways can you decompose it? Decompose means break into parts (ie. 5 561 can be decomposed into 5000 and 500 and 50 and 1, OR into 3000 and 2500 and 30 and 31 and many other ways). How will you show your thinking? Here is a link for more detail: Composing and Decomposing Numbers

3. Choose an amount: $50 000 or $750 000 or $1 000 000. What are some different ways can you make this amount with bills? What is the largest Canadian bill? What are three items that cost about this much?

*Extend: Use dice or playing cards to randomly draw digits for creating your own numbers, then show up to ten different ways of composing those numbers.

Here is an example of different ways to represent 15:



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