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NUMBERS

SCHOOLIO ONTARIO CURRICULUM
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Lesson 1: Represent Whole Numbers to One Million

Discussion:

	MILLIONS			THOUSANDS			ONES		
	HUNDRED MILLIONS	TEN MILLIONS	MILLIONS	HUNDRED THOUSANDS	TEN THOUSANDS	THOUSANDS	HUNDREDS	TENS	ONE

You've probably heard the term "a million". and this year that's what we are going to work on.

We are going to add another column to the left of the thousands that will be the millions column. Then we are going to practice building numbers. Show the place value chart below and talk about the new column to the left.

This represents an extra digit in your number now.

Say a number like "one million two hundred fifty six thousand three hundred forty five" Then have your child use the number tiles and 'create' the number on the place value chart provided. Practice this until you feel your child is proficient. Be aware that you don't want to use the word 'and.' Saying 'and' automatically should tell your child that you will be placing a decimal in that spot.

Work through the example prompts with your child, then complete the Activities pages.

Example Prompts:

One million five hundred sixty three thousand four hundred seventy two

Five million three hundred fifty five thousand six hundred twelve

Three million four hundred ninety five thousand seven hundred thirty four

Two million five hundred sixty five thousand four hundred twenty five.

Seven million nine hundred eighty four thousand three hundred nineteen

Prompts for When Your Child Seems to have mastered building numbers:

Build a number that is one more than…. (say a number in the millions)

Build a number that is five thousand more than (state a number that is in the millions)

Build a number that is three hundred thousand less than (say a number in the millions)

You can change the amount and the place value that you increase or decrease but the concept remains the same. Your child must first build the number and then increase or decrease the number.

Activity:
Complete Activity 1.1 and 1.2 – Numbers to a Million

Place Value Mat Numbers

9	8	7	6
5	4	3	2
		1	0

9	8	7	6
5	4	3	2
		1	0

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Place Value Mat

MILLIONS			THOUSANDS			ONES		
		MILLIONS	HUNDRED THOUSANDS	TEN THOUSANDS	THOUSANDS	HUNDREDS	TENS	ONE

Activity 1.1 – Numbers to a Million

1. Write the number in standard form and in words.

	Thousands			Ones		
Millions	Hundreds	Tens	Ones	Hundreds	Tens	Ones
●●	●● ●●	●● ● ●	●	●		● ●

2. Which number is larger? Use an inequality sign to show the larger number.
   1 205 321   or 1 214 300

3. Draw the number on the place value chart and write it in standard form
   Nine million eight hundred sixty three thousand four hundred two.

	Thousands			Ones		
Millions	Hundreds	Tens	Ones	Hundreds	Tens	Ones

4. Use your place value mat to create a number that is four thousand more than 7 345 211. Explain your thinking.

5. Write the number 7 892 432 in expanded form.

6. Write the number 2 832 120 in expanded form

Activity 1.1 – Numbers to a Million

1. Write the number in standard form and in words.

2 451 102 two million four hundred fifty one thousand one hundred two.

Millions	Thousands			Ones		
	Hundreds	Tens	Ones	Hundreds	Tens	Ones
● ●	● ● ● ●	● ● ● ●		●		● ●

2. Which number is larger? Use an inequality sign to show the larger number.

1 205 321   or 1 214 300

1 205 321 < 1 214 300

3. Draw the number on the place value chart and write it in standard form

Nine million eight hundred sixty three thousand four hundred two.

9 863 402

Millions	Thousands			Ones		
	Hundreds	Tens	Ones	Hundreds	Tens	Ones
● ● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ●	● ● ● ● ● ●	● ● ● ●	● ● ● ●		● ●

4. Use your place value mat to create a number that is four thousand more than 7 345 211. Explain your thinking.

7 349 211. I know that the 5 is in the thousands place so I need to add four to that number to get my answer. That makes the number 7 349 211

5. Write the number 7 892 432 in expanded form.

7 000 000 + 800 000 + 90 000 +2 000 + 400 + 30 + 2

6. Write the number 2 832 120 in expanded form

2 000 000 + 800 000 + 30 000   + 2000 + 100 + 20

Activity 1.2 – Numbers to a Million

1. Write the number in standard form

   a) 2 000 000 + 400 000 + 30 000 + 5 000 + 700 + 90 + 1
   b) 5 000 000 + 600 000 + 4 000 + 200 + 70 + 1   =
   c) 9 000 000 + 400 000 + 80 000 + 7 000 + 700 + 10 + 1 =
   d) 6 000 000 + 200 000 + 40 000 + 5 000 + 900 + 30 + 6 =
   e) 7 000 000 + 500 000 + 90 000 + 3 000 + 800 + 20 + 1 =
   f) 3 000 000 + 300 000 + 50 000 + 6 000 + 700 + 80 + 5 =
   g) 4 000 000 + 700 000 + 90 000 + 2 000 + 400 + 90   =

2. Write the number in expanded form

   a) 3 236 781 =
   b) 3 404 692 =
   c) 9 495 713 =
   d) 3 295 736 =
   e) 1 573 520 =
   f) 2 357 884 =
   g) 4 782 001 =

3. Write the place value of the underlined digit under each number.

4 567 <u>8</u>91	2 <u>1</u>39 902	2 139 9<u>0</u>2
2 9<u>0</u>2 754	<u>4</u>567 891	7 <u>8</u>73 113

4. Fill in the missing parts of the numbers to show how much of each place value they have.

Number	Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
1 204 375							
2 902 754							

Activity 1.2 – Numbers to a Million

1. Write the number in standard form
   a) $2\ 000\ 000 + 400\ 000 + 30\ 000 + 5\ 000 + 700 + 90 + 1$ = 2 435 791
   b) $5\ 000\ 000 + 600\ 000 + 4\ 000 + 200 + 70 + 1$ = 5 604 271
   c) $9\ 000\ 000 + 400\ 000 + 80\ 000 + 7\ 000 + 700 + 10 + 1$ = 9 487 771
   d) $6\ 000\ 000 + 200\ 000 + 40\ 000 + 5\ 000 + 900 + 30 + 6$ = 6 245 936
   e) $7\ 000\ 000 + 500\ 000 + 90\ 000 + 3\ 000 + 800 + 20 + 1$ = 7 593 821
   f) $3\ 000\ 000 + 300\ 000 + 50\ 000 + 6\ 000 + 700 + 80 + 5$ = 3 356 785
   g) $4\ 000\ 000 + 700\ 000 + 90\ 000 + 2\ 000 + 400 + 90$ = 4 792 490

2. Write the number in expanded form
   a) $3\ 236\ 781$ = 3 000 000 + 200 000 + 30 000 + 6 000 + 700 + 80 + 1
   b) $3\ 404\ 692$ = 3 000 000 + 400 000 + 4 000 + 600 + 90 + 2
   c) $9\ 495\ 713$ = 9 000 000 + 400 000 + 90 000 + 5 000 + 700 + 10 + 3
   d) $3\ 295\ 736$ = 3 000 000 + 200 000 + 90 000 + 5 000 + 700 + 30 + 6
   e) $1\ 573\ 520$ = 1 000 000 + 500 000 + 70 000 + 3 000 + 500 + 20
   f) $2\ 357\ 884$ = 2 000 000 + 300 000 + 50 000 + 7 000 + 800 + 80 + 4
   g) $4\ 782\ 001$ = 4 000 000 + 700 000 + 80 000 + 2 000 + 1

3. Write the place value of the underlined digit under each number.

4 567 8<u>9</u>1	2 <u>1</u>39 902	2 139 9<u>0</u>2
hundred	Hundredthousand	Tens
2 9<u>0</u>2 754	<u>4</u>567 891	7 <u>8</u>73 113
Ten thousands	Millions	Hundred thousands

4. Fill in the missing parts of the numbers to show how much of each place value they have.

Number	Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
1 204 375	1	2	0	4	3	7	5
2 902 754	2	9	0	2	7	5	4