

To be able to represent numbers up to 1,000,000



Starter:

Add counters to a place value grid, or draw them in, to show 20,483.

TTh	Th	H	T	O

What is the value of each digit?

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Activity 1:

Write what is represented in each of the place value charts in numerals.

a)

HTh	TTh	Th	H	T	O
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●

b)

HTh	TTh	Th	H	T	O
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●

c)

HTh	TTh	Th	H	T	O
●●●●●			●●●●●	●●●●●	●●●●●

d)

HTh	TTh	Th	H	T	O
●●●●●	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●

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Activity 2:

Write what is represented in each of the place value charts in numerals.

HTh	TTh	Th	H	T	O
●		●	●●●●●	●●●●●	●●●●●

Thousands			Ones		
H	T	O	H	T	O
●●●●●	●●●●●	●●●●●	●		●

What is the same and what's different about the two numbers?
Explain your answer.

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Activity 3:

Sketch the numbers provided.

Thousands			Ones		
H	T	O	H	T	O
	●●	●●			●●

Thousands			Ones		
H	T	O	H	T	O
●●		●●			●●

What do you notice about both of your completed place value charts?
Explain your answer.

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Activity 4:

Write three more numbers with a 5 in the thousands column. Make each number have a different amount of digits. What's the smallest number you can make?

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Activity 5:

Tell your partner the value of the digit '7' in each of these numbers:

-
-
-
-
-
-

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Activity 6:

Complete these number sentences:

$$237,274 = 200,000 + 30,000 + \boxed{} + 200 + 70 + 4$$

$$790,420 = \boxed{} + 90,000 + 400 + \boxed{}$$

$$400,000 + \boxed{} + \boxed{} + 300 + 10 + 8 = 456,318$$

$$233,093 = 3 + 3,000 + \boxed{} + 200,000 + 90$$

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Activity 7:

Yasmin is thinking of a six-digit number.
All the digits are different.

Her number is an odd number.

The digit in the hundreds column is double the number in the ones.

The highest value place has the smallest value digit.

The hundreds, tens and ones digits make a total of 11.

The two left-hand digits add up to 5.

Three of the digits form consecutive numbers.

What is Yasmin's number?

Explain how you found the number.

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Evaluation:



Numbers containing only the digits 7,8 and 9 are larger than numbers containing only the digits 1,2 and 3.

Is Astrobee's statement sometimes, always or never true?
Explain your answer.