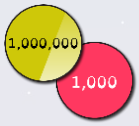
To be able to represent numbers up to ten million

MathShed

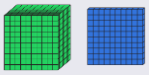
Starter:

Which one doesn't belong?



M	HTH	TTH	TH	H	T	O
○			○			

one million and one thousand



Explain your answer.

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Activity 1:

Write each amount in numerals beneath its place value chart.

M	HTH	TTH	TH	H	T	O
		● ●	●		● ●	

_____

M	HTH	TTH	TH	H	T	O
	● ●	●		●	● ●	●

_____

M	HTH	TTH	TH	H	T	O
●	●		● ●		● ●	● ● ●

_____

M	HTH	TTH	TH	H	T	O
● ●		● ●		●		● ●

_____

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Activity 2:

What is the value of the underlined digit in each number?

5,50<u>5</u>	=
5,<u>5</u>55	=
55<u>5</u>,505	=
5,<u>0</u>50,000	=

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Activity 3:

Write the following numbers in their worded form.

Example:

4,444,444 = four million, four hundred and forty-four thousand, four hundred and forty-four

a) 4,705 =

b) 47,050 =

c) 405,075 =

d) 4,557,507 =

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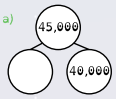
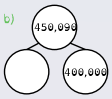
Activity 4:

Complete the part-whole models and number sentences below.

a)



b)



c) 56,400 = 50,000 + 6,000 + ___

d) 105,460 = 100,000 + _____ + 400 + ___

e) _____ = 500,000 + 10,000 + 600 + 4

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Activity 5:

Yasmin is describing the number 3,456,789.

She says, "It has the digit 3 in the millions place, each digit increase by one as we move down to the ones place. So, there is a 4 in the hundred thousands column, 5 in the ten thousands column, 6 in the thousands column, 7 in the hundreds column, 8 in the tens column and 9 in the ones column."

Write your own description for 8,765,432.

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Evaluation:

Write some five-digit numbers with the digit 7 in the thousands column.

_7,___

What is the largest possible number you can make?

What is the smallest possible number you can make?

How many numbers can you make with a digital total of 35?