

Place Value (Part 2)

Place Value to 1 million

We can think of big numbers being made up of smaller numbers combined. For example, the number 596,742 can be partitioned like this:

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
0	0	0	0	0	0
5	0	0	0	0	0
	9	0	0	0	0
		6	0	0	0
			7	0	0
				4	0
					2

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
5	9	6	7	4	2

five hundred and ninety-six thousand, seven hundred and forty-two

Activity 1 - For each of the following numbers can you identify what the underlined digit is actually worth? Use the place value chart to help you. The first one has been done for you.

1. 802,137 two thousands

2. 835,579 _____

3. 127,342 _____

4. 183,637 _____

5. 593,356 _____

6. 502,872 _____

7. 551,595 _____

8. 513,813 _____

Activity 2 - Can you recombine these numbers together to make one number? You can use the place value chart to help you. Can you add the commas in the correct place too?
 E.g. $10,000 + 60 + 9 + 400,000 = 410,069$

1. $7 + 8000 + 90 + 300,000$

2. $60,000 + 70 + 900,000 + 500$

3. $300 + 60 + 7 + 400,000 + 70,000$

4. $100,000 + 60,000 + 200 + 2 + 60$

5. $6 + 600,000 + 8,000$

Challenge: Can you recombine some of these numbers to make the closest possible number to 540,789?

300			2			
	50	7000		20		900 000
10 000		6	4000	20 000		500 000
				800		

Number	Closest Possible Number I Can Make
540 789	

Counting in multiples of 10

Activity 1: Work out the correct numbers to complete the boxes. Remember when counting in multiples of 10 only the tens digit will change - unless of course you are crossing a power of 10 boundary! Any digits to the right of the tens will never change!

E.g. $345,214 + 20 = 345,234$ (only the tens digit has changed)

$725,489 + 20 = 725,509$ (the tens digit and the hundreds digit changed)

$535\ 787 + 10$		+10		+10		+10		+10	
$879\ 213 + 20$		+20		+20		+20		+20	
$756\ 128 + 50$		+50		+50		+50		+50	
$919\ 399 + 60$		+60		+60		+60		+60	
$754\ 321 - 10$		-10		-10		-10		-10	
$134\ 094 - 70$		-70		-70		-70		-70	

Activity 2: find the number trail in the grid below by counting in 30s from the start each time.

START 394 462	394 432	394 585	394 705	394 505	394 805	394 905
394 118	394 402	394 372	394 625	394 957	394 891	394 635
394 292	394 312	394 342	394 302	394 645	394 665	394 232
394 888	394 282	394 485	394 499	394 680	394 685	394 605
394 578	394 252	394 222	394 192	394 102	394 072	394 042
393 565	393 798	393 411	394 162	394 132	393 082	394 012
393 565	393 166	393 374	393 641	393 445	393 052	FINISH 393 982