

## Year 6

### Varied fluency examples

Use the place value grid to draw the following numbers.

1. Draw a number with a 9 in the ones and tens of millions columns.
2. Draw a number that is more than 700,000 with a 9 in the tens of thousands column.
3. Draw a number which is more than 3,500,000 with a 2 in the millions column.

- 1 Match the representation to the numbers in digits.

One million, four hundred  
and one thousand, three  
hundred and twelve

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



1,041,312

1,410,312

1,401,312

- 2 Complete the missing numbers.

$$6,305,400 = \underline{\hspace{2cm}} + 300,000 + \underline{\hspace{2cm}} + 400$$

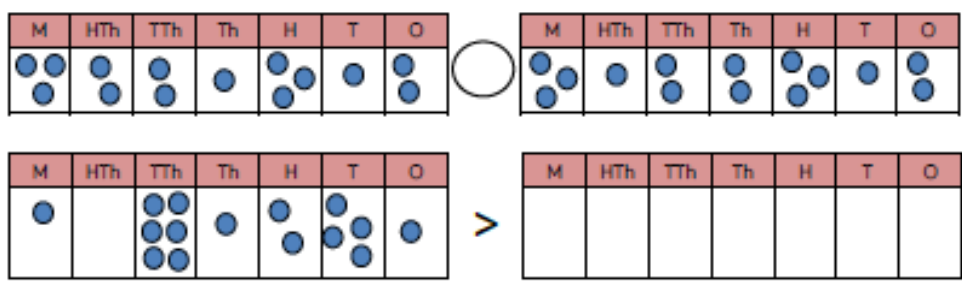
$$7,001,001 = 7,000,000 + \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$$

$$42,550 = \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \underline{\hspace{2cm}}$$

- 3 Husna's number is 306,042  
She adds 5,000 to her number.  
What is her new number?

Reasoning examples

Complete the statements to make them true.



Ed: My number is 1,350 when rounded to the nearest 10

Joe: My number is 1,400 when rounded to the nearest 100

Both numbers are whole numbers.

What is the greatest possible difference between the two numbers?

Kiera rounded 2,215,678 to the nearest million and wrote 2,215,000

Can you explain to Kiera what mistake she has made and why she has done it?

Problem Solving examples

Lola has ordered eight 6-digit numbers.

The smallest number is 345,900

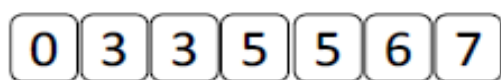
The greatest number is 347,000

All the other numbers have digit totals of 20 and have no repeating digits.

What are the other six numbers?

Can you order all eight numbers from smallest to greatest?

Use the digit cards and statements to work out my number.



- The ten thousands and hundreds have the same digit.
- The hundred thousand digit is double the tens digit.
- It is a six-digit number.
- It is less than six hundred and fifty five thousand.

Is this the only option?