

2

Complete the table below to find 100 more and 100 less than the actual number. Then find 1000 more and 1000 less than the actual number. The first example has been done for you.

1000 less	100 less	Actual number	100 more	1000 more
1111	2011	3011	2211	3111
231				
			3456	
				6987
	1134			
		4555		



# Choose **3** from below.

## Numbers To 10 Million Reasoning and Problem Solving

1

Roll a  six times.

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- Arrange the numbers to make the **greatest possible number**.
- Now rearrange them to make the **smallest possible number**.
- Work out the **difference** between your two numbers.

2



Put a digit in the missing space below to make the sentence correct.

$$2,63\boxed{\phantom{0}},667 < 2,633,66\boxed{\phantom{0}}$$

Is there more than one option?

Can you find them all?

3

What number am I thinking of?



- The number has four digits.
- It is less than 6000 but greater than 5000.
- The hundreds digit is smaller than 6 but bigger than 4.
- The tens digit is an odd number smaller than 7 but bigger than 3.
- The ones digit is in the three times table and is bigger than 6 but smaller than 10.

4

Make your own 'What is the number?' question.

Ask a partner to solve the question.

5



started with the number 345,754. She added 3 counters to the same column. Her new number was greater than 346,000.

Which column could  have added her counters to?

Millions			Thousands			Ones		
H	T	O	H	T	O	H	T	O

Is there more than one solution?

6

Cap Boy rolls a dice 7 times and records the digits.



says, "If I arrange the digits in **ascending order**, I will create the smallest number possible."



Is correct? Prove it.