

**Lesson 2**

Tuesday 9<sup>th</sup> June 2020

L.O - I am learning to answer reasoning and problem solving place value questions.

Try your best to answer as many questions as you can. 😊

**Reasoning Questions**

**Your answer**

Key vocabulary: Digit, greater than., less than, ones, tens, hundred, thousand, ten thousand, hundred thousand, million.

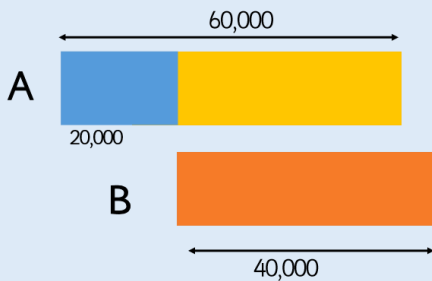
Rosie has the number 924,650. She takes forty thousand away. Her answer is 920,650.



Is she correct? Explain how you know.

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Malachi draws bar model A. His teacher asks him to draw another where the total is 40,000.



Explain how you know bar model B is inaccurate.

Place Value

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5a. Dennis says,



If I add fifty thousand to any six-digit number, I will only need to change a maximum of three place value columns.

Is he correct?

Explain how you know, using examples to help you.

8a. Bridget says,



If I add forty-five thousand, six hundred and twenty-two to any six-digit number, I will always have to change digits in three place value columns.

Is she correct?

Explain how you know, using examples to help you.



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5a. Amina thinks the largest possible missing number would be 7,000.



$$4,587,308 + 400,000 > 4,980,308 + \boxed{?}$$

Do you agree? Explain why.



## Problem Solving

Put a digit in the missing spaces to make the statement correct.

$$3,62\_,545 < 3,623,54\_\_$$

Is there more than one option?  
Can you find them all?

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 triple the tens digit.
- It is a six-digit number.
- It is less than six hundred and fifty-five thousand.

Is this the only possible solution?

Leanna has ordered eight six-digit numbers.



The smallest number is 245,900.  
The greatest number is 247,000.

All the other numbers have a digit total of 19 and have no repeating digits.  
What could the other six numbers be?

Can you place all eight numbers in ascending order?

## Week 6\_Maths\_Lesson 2

7 Mo uses 7 counters to make a number on a place value chart.

a) Write 5 numbers Mo can make.

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b) What is the biggest number Mo can make?

c) What is the smallest number Mo can make?

d) What do you notice about the sum of the digits?

Millions	Hundred thousands	Ten thousands	Thousands	Hundreds	Tens	Ones

9 a) Dexter has written a set of clues to describe a number.  
What is the number?

- It has 5 tens.
- It has one more thousand than it does tens.
- It has 7 digits.
- It starts with a 9
- The rest of the digits are zeros.

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b) Write a set of clues for the number 2,843,003

