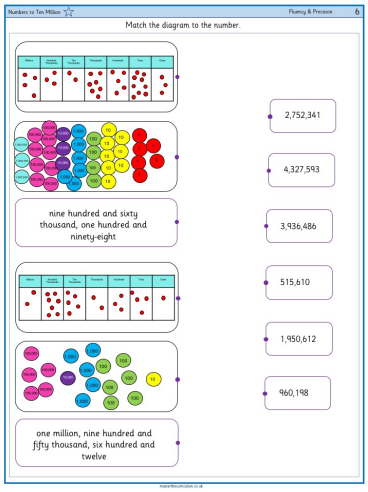
# Lesson 4 – Numbers to Ten Million

| NC Objective: | Resources needed: | Vocabulary: |
|---|---|---|
| Read, write, order and compare numbers up to 10,000,000 and determine the value of each digit. | Differentiated Worksheets<br>Teaching Slides | Place value, representation, millions, hundred thousands, partitioned |

Children need to read, write and represent numbers to ten million in different ways.
Children need to be exposed to numbers not always in the millions, they should see a mixture of smaller and larger numbers.

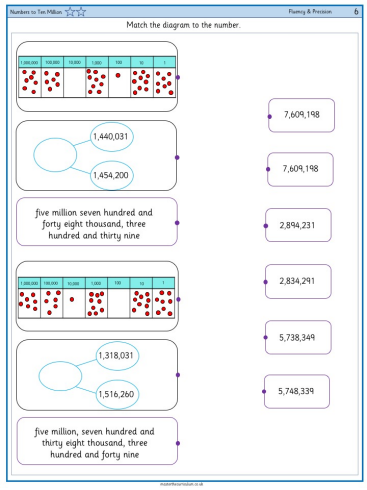
Key Questions:
Why is the zero in the number important when representing large numbers?
What strategies can you use to match the representation with the correct number?
How many ways can you complete the partitioned number?

## ★ Working Towards



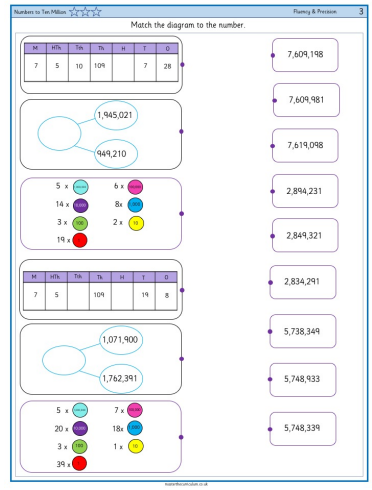

Children on this sheet have a selection of numbers represented in different ways that can be easily identified as the numbers are very different.

## ★★ Working Within



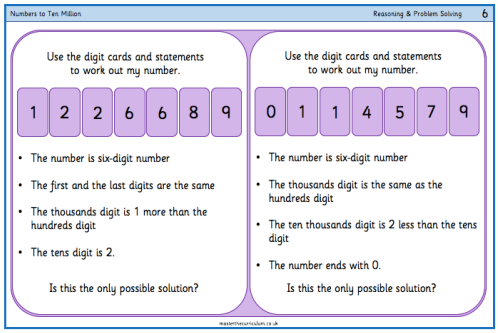

Children on this sheet have a selection of numbers represented in different ways where some are similar to each other.

## ★★★ Greater Depth




Children on this sheet have a selection of numbers represented in different ways where exchanging is required to figure out the number.

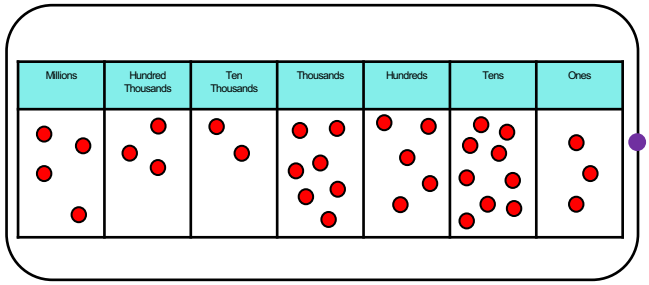
## Reasoning & Problem Solving

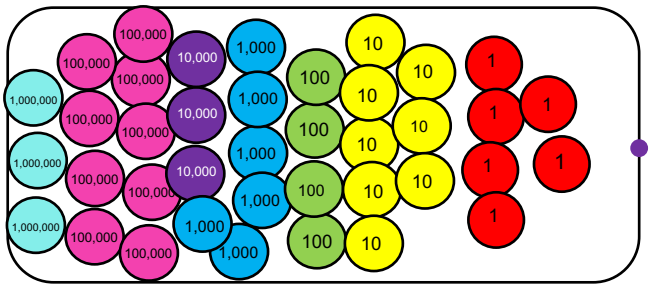



Children continue working on numbers to ten million.

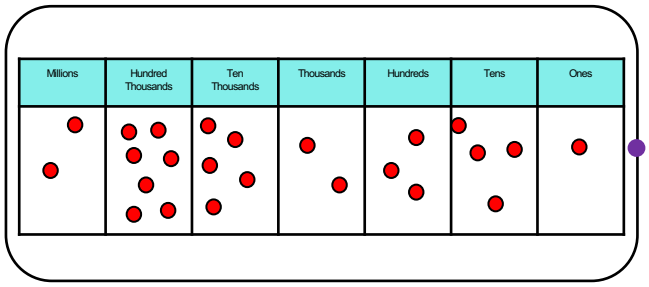
They will solve two reasoning questions about possible numbers described with clues.

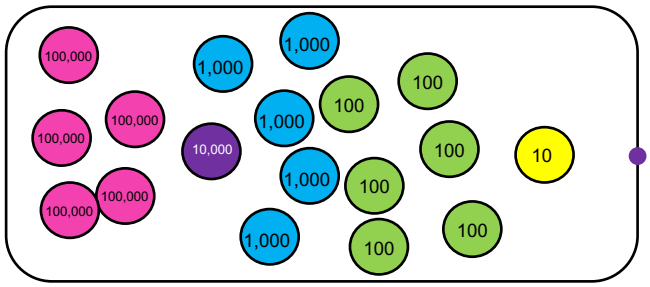
Match the diagram to the number.




nine hundred and sixty thousand, one hundred and ninety-eight




one million, nine hundred and fifty thousand, six hundred and twelve

2,752,341

4,327,593

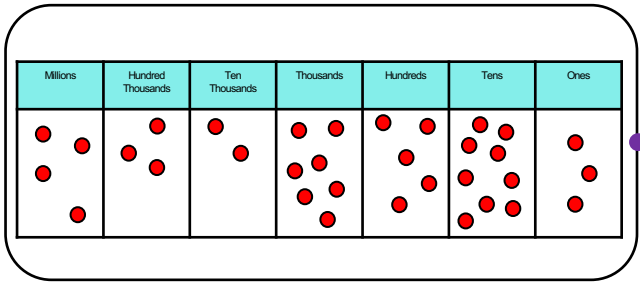
3,936,486

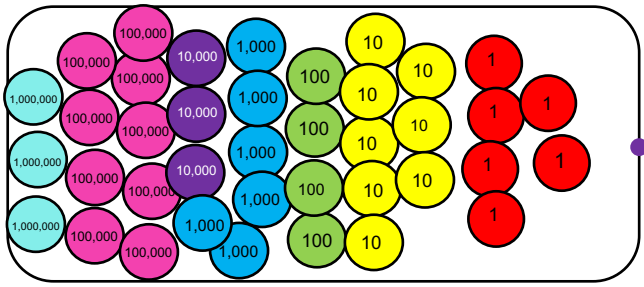
515,610

1,950,612

960,198

Match the diagram to the number.

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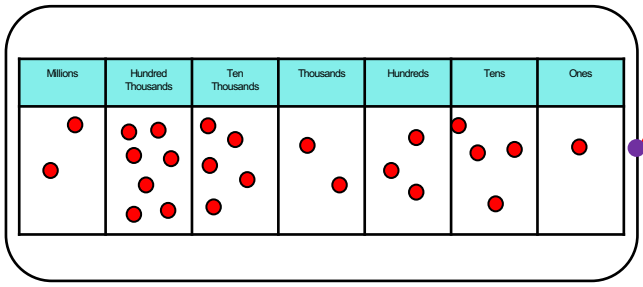


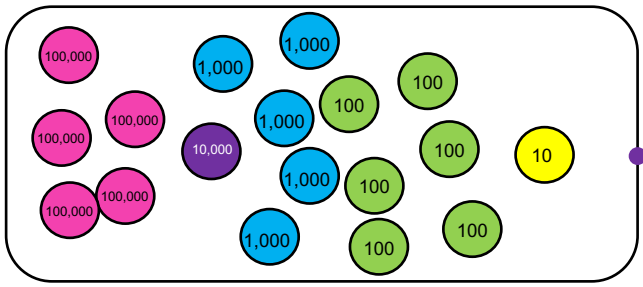


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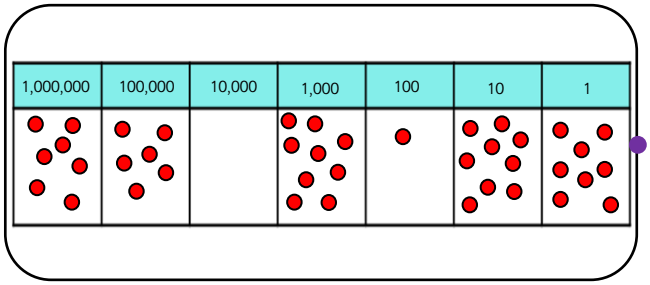
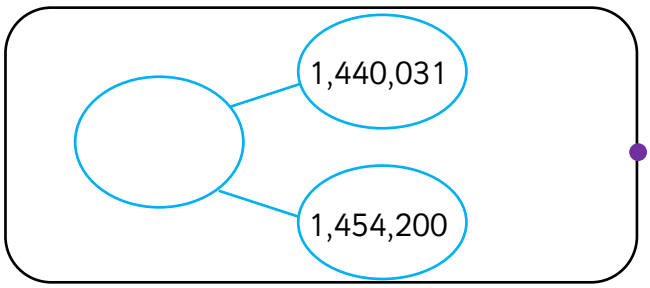
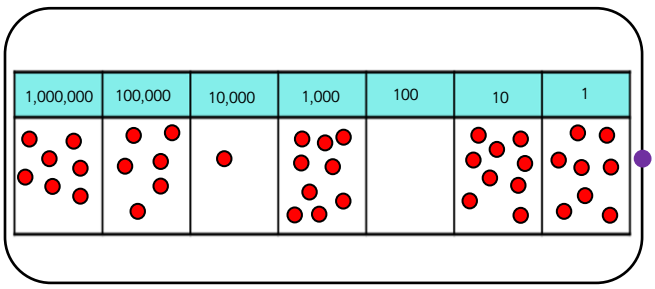
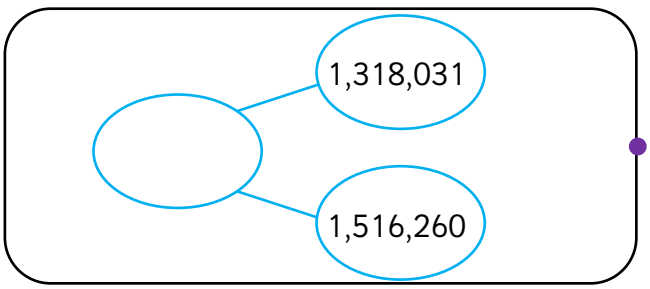



five million seven hundred and forty eight thousand, three hundred and thirty-nine




five million, seven hundred and thirty eight thousand, three hundred and forty-nine

7,619,098

7,609,198

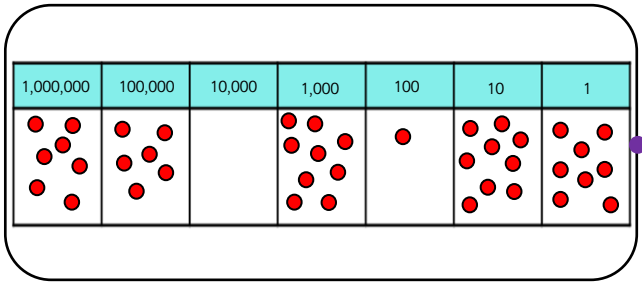
2,894,231

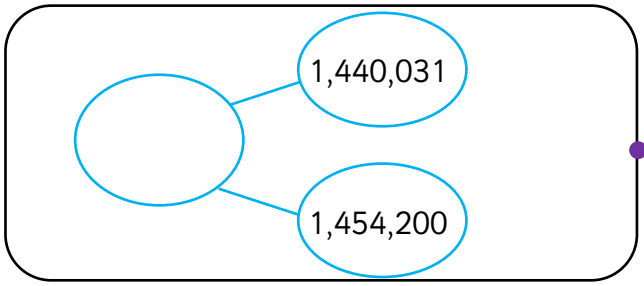
2,834,291

5,738,349

5,748,339

Match the diagram to the number.

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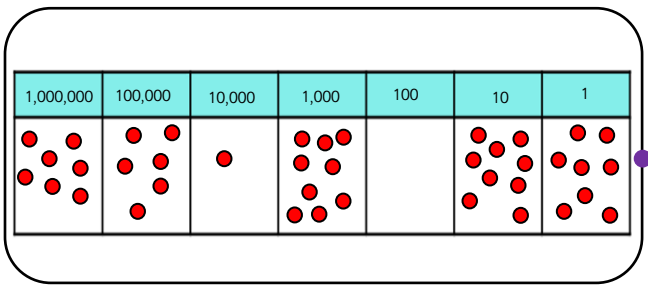
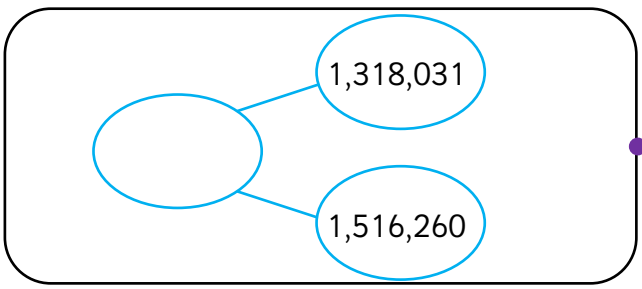



five million, seven hundred and thirty eight thousand, three hundred and forty-nine

7,619,098

7,609,198

2,894,231

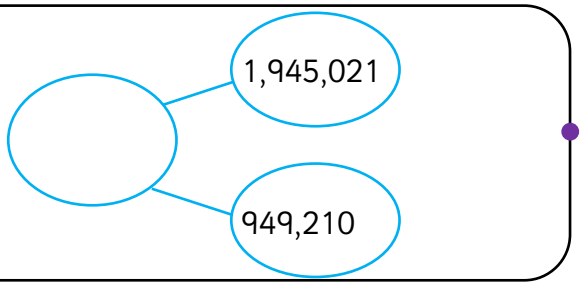
2,834,291

5,738,349

5,748,339

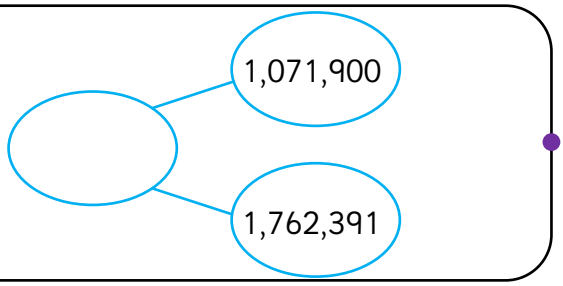
Match the diagram to the number.

| M | HTh | Tth | Th | H | T | O |
|---|---|---|---|---|---|---|
| 7 | 5 | 10 | 19 | | 7 | 28 |




5 x 1,000,000
6 x 100,000
14 x 10,000
8x 1,000
3 x 100
2 x 10
19 x 1

| M | HTh | Tth | Th | H | T | O |
|---|---|---|---|---|---|---|
| 7 | 5 | | 109 | | 19 | 8 |




5 x 1,000,000
7 x 100,000
2 x 10,000
18 x 1,000
3 x 100
1 x 10
39 x 1

7,609,198

7,609,981

7,619,098

2,894,231

2,849,321

2,834,291

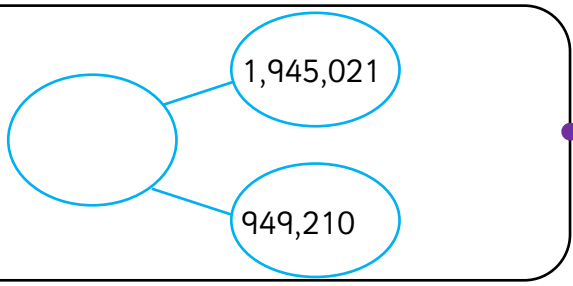
5,738,349

5,748,933

5,748,339

Match the diagram to the number.

| M | HTh | Tth | Th | H | T | O |
|---|---|---|---|---|---|---|
| 7 | 5 | 10 | 19 | | 7 | 28 |

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6 x 100,000
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|---|---|---|---|---|---|---|
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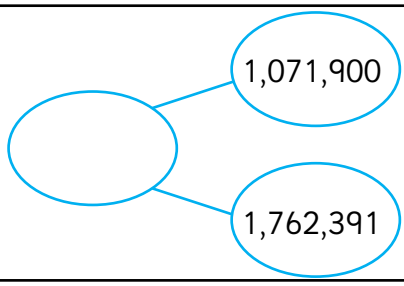


5 x 1,000,000
7 x 100,000
2 x 10,000
18 x 1,000
3 x 100
1 x 10
39 x 1

7,609,198
7,609,981
7,619,098
2,894,231
2,849,321
2,834,291
5,738,349
5,748,933
5,748,339

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

| 1 | 2 | 2 | 6 | 6 | 8 | 9 |
|---|---|---|---|---|---|---|

- The number is six-digit number
- The first and the last digits are the same
- The thousands digit is 1 more than the hundreds digit
- The tens digit is 2.

Is this the only possible solution?

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

| 0 | 1 | 1 | 4 | 5 | 7 | 9 |
|---|---|---|---|---|---|---|

- The number is six-digit number
- The thousands digit is the same as the hundreds digit
- The ten thousands digit is 2 less than the tens digit
- The number ends with 0.

Is this the only possible solution?



Numbers to Ten Million Reasoning & Problem Solving 6

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

| 1 | 2 | 2 | 6 | 6 | 8 | 9 |
|---|---|---|---|---|---|---|

- The number is six-digit number
- The first and the last digits are the same
- The thousands digit is 1 more than the hundreds digit
- The tens digit is 2.

Is this the only possible solution?

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

| 0 | 1 | 1 | 4 | 5 | 7 | 9 |
|---|---|---|---|---|---|---|

- The number is six-digit number
- The thousands digit is the same as the hundreds digit
- The ten thousands digit is 2 less than the tens digit
- The number ends with 0.

Is this the only possible solution?

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# Answers



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

| 1 | 2 | 2 | 6 | 6 | 8 | 9 |
|---|---|---|---|---|---|---|

- The number is six-digit number
- The first and the last digits are the same
- The thousands digit is 1 more than the hundreds digit
- The tens digit is 2.

Is this the only possible solution?

619,826
629,826

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

| 0 | 1 | 1 | 4 | 5 | 7 | 9 |
|---|---|---|---|---|---|---|

- The number is six-digit number
- The thousands digit is the same as the hundreds digit
- The ten thousands digit is 2 less than the tens digit
- The number ends with 0.

Is this the only possible solution?

471,190
571,190
451,170
951,170



Numbers to Ten Million

Answers

Reasoning & Problem Solving 6

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

| 1 | 2 | 2 | 6 | 6 | 8 | 9 |
|---|---|---|---|---|---|---|

- The number is six-digit number
- The first and the last digits are the same
- The thousands digit is 1 more than the hundreds digit
- The tens digit is 2.

Is this the only possible solution?

619,826
629,826

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

| 0 | 1 | 1 | 4 | 5 | 7 | 9 |
|---|---|---|---|---|---|---|

- The number is six-digit number
- The thousands digit is the same as the hundreds digit
- The ten thousands digit is 2 less than the tens digit
- The number ends with 0.

Is this the only possible solution?

471,190
571,190
451,170
951,170

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