# Number and Place Value: Number Reasoning 

## Aim:

Read, write, order and compare numbers to at least 1000000 and determine the value of each digit.
To use reasoning to solve problems with numbers up to 1000000 .

## Success Criteria:

I can use place value to solve number puzzles.
I can use my knowledge of numbers to answer reasoning questions.

## Key/New Words:

Place value, digit, compare, order, higher, lower, greater, less, reason.

| Resources: |
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| Lesson Pack |
| Colouring pencils or pens |
| Preparation: <br> Number Comparisons Dice - one per pair <br> Comparison Cards Sets 1 and 2 - one per pair, one set each <br> True or False Activity Sheet - one per child <br> True or False Tips Sheet - as required <br> Diving into Mastery Sheets - as required |

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Lesson Pack
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True or False Activity Sheet - one per child
True or False Tips Sheet - as required
Diving into Mastery Sheets - as required

Prior Learning: It will be helpful if children have covered reading and writing numbers up to at least 1000000.

## Learning Sequence

Remember It: Using the numbers shown on the Lesson Presentation, children order numbers in ascending or
descending order.
their set of Comparison Cards. Children work in pairs, taking turns to roll the dice. Children choose two of their
Comparison Cards to make a number sentence using the symbol shown on the dice. If their number sentence
is correct, they can put their cards down on the table. The aim of the game is to be the first player to use up all
their Comparison Cards. Can children use the <, = and > symbols to compare numbers up to at least 1000000 ?

Exploreit
Reasonit: Use this to enable children to reason about numbers and place value.
Solveit: Children can solve the number reasoning problems in these differentiated
Learnit: Children will be able to use this
to visualise ways to reason about numbers.

