## Multiplication and Division: Multiplication Magic

## Aim:

Multiply and divide numbers mentally drawing upon known facts.

I can use multiplication tables facts to solve calculations with larger numbers and calculations with decimals.

## Success Criteria:

I can identify times table facts within larger numbers.

I can multiply the fact by multiples of 10 to solve calculations with larger numbers

I can divide the fact by multiples of 10 to solve calculations with decimals.

## Key/New Words:

Divide, multiply, decimal, adjust, factors, multiple.

## Resources:

Lesson Pack
Whiteboards and pens

## Preparation:

Differentiated Multiplication Magic Activity Sheets - one per child Find a Friend Cards - cut up, one card per child

Prior Learning: It will be helpful if the children can multiply by 10 and 100 and know their multiplication tables up to $12 \times 12$.

## Learning Sequence

Magic Wands: The children use the magic wand strips on the Lesson Presentation to practise their mental
calculations.
Multiplying in Two Steps: Using the examples on the Lesson Presentation, demonstrate how to multiply mentally
in two steps by (1) finding the times table fact and (2) and adjusting the answer by the appropriate power of 10.

## Masterit

Explainit: Children design a poster to explain how to use the two-step strategy to multiply larger whole numbers and decimals mentally. They must include examples of calculations.

