## Multiplication and Division: Equivalence

## Aim:

Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign.

I can solve missing number problems to make the calculations on each side of the equals sign balance.

## Success Criteria:

I know what the equals sign means.
I can make the calculations on both sides of the equals sign equivalent.

## Key/New Words:

Addition, subtraction, multiplication, division, square number, cube number, equals, equivalent, equivalence, powers.

## Resources:

Lesson Pack

## Preparation:

Differentiated Equivalence Activity Sheets one per child

Prior Learning: It will be helpful if the children know their multiplication tables up to $12 \times 12$ and have used square and cube numbers.

## Learning Sequence

Missing Numbers: Children calculate the missing numbers in multiplication and division problems on the Lesson
Presentation.
See-Saw: Use the examples on the Lesson Presentation to explain what the equals sign means and what equivalence
is.

## Masterit

Writeit: Children write word problems to go with the calculations in Match Up on the Lesson Presentation.
Playit: Children roll two dice to generate a two-digit number and write it down followed by the equals sign. Then they come up with as many calculations which equal that number (involving at least one square or cube number) as they can. They can use all four operations. The first player who can't find a different way to make the number loses and must start again and generate the next two-digit number.

