## Addition, Subtraction, Multiplication and Division: Fun Factory

Aim:<br>Identify common factors, common multiples and prime numbers.<br>I can identify common factors.

| Success Criteria: <br> I know what 'common factor' means. | Resources: <br> Lesson Pack |
| :--- | :--- |
| I can identify common factors. | Whiteboards and pens <br> Sticky notes - one set per pair <br> PE hoops or sorting hoops - two per pair <br> Calculators |
| Key/New Words: <br> Multiple of, common factor, highest common <br> factor, lowest common factor, HCF, LCF, <br> greatest common factor. | Preparation: <br> Factor Cards - one per class <br> Common Factors Activity Sheet - one per pair <br> Extra Challenge Activity Sheet - as required |

Prior Learning: It will be helpful if children have a secure understanding of place value, multiplication facts and corresponding number facts.

## Learning Sequence

Multiple Splat: Split the class into two groups. Select a child from each group. On each slide of the Lesson
Presentation, there will be a given number. The children take it in turns to select a number that is a multiple of the
given number. For each number that is selected correctly, one point is awarded to the team. If an incorrect number is
selected then a point is deducted from the team. For each slide, swap the children playing the game. Were the children
able to identify multiples of a given number? Did the children use any known facts to help them identify the numbers? What Is a Factor? Using the Lesson Presentation, explain what the term 'factor' means. Children explore factors of

What Am I? Ask the children to think of two numbers and then write their highest common factor (HCF) and their lowest common multiple (LCM) on a whiteboard. Get the children to swap their whiteboard with a partner. Can their partner guess what their two numbers were?

## Exploreit

Rollit: Invite children to roll two dice to generate 2 two-digit numbers. The children write down the factors of each number, identifying any common factors.
Extendit: Children complete this fabulous set of Prime Factors Activity Sheets.

