# Multiplication and Division: Prime Numbers 

## Aim:

Establish whether a number up to 100 is prime and recall prime numbers up to 19.

To know if a number up to 100 is prime and recall prime numbers up to 19.

| Success Criteria: |
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| I can create arrays to prove my answers. |
| I can find factors of numbers. |
| I can explain the differences between prime |
| and composite numbers. |

Resources:
Lesson Pack
Counters or cubes
Scissors and glue

## Preparation:

Differentiated Prime Numbers Activity Sheet - one per child
Diving into Mastery Activity Sheets as required

Prior Learning: It will be helpful if children are familiar with how to create arrays and how these link to their prior learning of multiplication.

## Learning Sequence

\(\left.\begin{array}{l}Remember It: Using the corresponding slide on the Lesson Presentation, the children will be reactivating <br>
prior learning on arrays and will consider the calculation that could match the image. The children will further <br>

explore other ways of building arrays for the number 12 and will list the factors that create this number.\end{array}\right\}\)| Arrays: Using the three corresponding slides of the Lesson Presentation, the children will share their |
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| responses to the statement of 'There is only one way to create an array for the number 12.' Can the children |
| understand that 12 can be organised into many array formations? Can the children further share the |
| calculation that can be assigned to each array? |

Diving into Mastery: Schools using a mastery approach may prefer to use the following as an alternative
activity. These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper'
section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill
and are applying this to show their depth of understanding.

## Exploreit

Learnit: Children will find this visually exciting Knowledge Organiser a useful tool to support their understanding of multiplication and division.
Captureit: Children can practise building arrays using a wide range of resources in the classroom and at home. You could have them photograph their creations to add to your working wall.
Proveit: Children could apply prior learning on factors by creating factor rainbows or factor bugs when exploring prime numbers.

