# Week 11, Day 3 <br> Create, describe and predict patterns 

Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. If possible, watch the PowerPoint presentation with a teacher or another grown-up.


OR start by carefully reading through the Learning Reminders.

2. Think you've got it? Have a go at the Investigation or Practical Activity.

3. Have I mastered the topic? A few questions to Check your understanding.
Fold the page to hide the answers!


What number is one hundred times smaller than 0.4 ?

## Learning Reminders




## Check your understanding <br> Questions

Which of these numbers are multiples of 9 ?
$\begin{array}{llllll}28 & 108 & 126 & 49 & 153 & 891\end{array}$ How do you know?

Which of these numbers are multiples of 7 ?
$\begin{array}{llllllll}84 & 79 & 32 & 63 & 56 & 140 & 133 & \text { How do you know? }\end{array}$

Complete this grid as fast as you can.
Can you solve the puzzle in under one minute?!

| $x$ | $\mathbf{7}$ |  | $\mathbf{9}$ |
| :---: | :---: | :---: | :---: |
|  | 42 |  |  |
|  |  |  | 63 |
| $\mathbf{8}$ |  | 96 |  |

Write common multiples of 4 and 6 up to 60 . What is the lowest common multiple?
Use this information to find the lowest common multiple of 8 and 12.

## Answers on next page

## Check your understanding

## Answers

Which of these numbers are multiples of 9 ?
$\begin{array}{llllll}28 & 108 & 126 & 49 & 153 & 891\end{array}$ How do you know?
$108,126,153$ and 891 are all multiples of 9 (all have a digit sum =9).

Which of these numbers are multiples of 7 ?
$\begin{array}{llllllll}84 & 79 & 32 & 63 & 56 & 140 & 133 & \text { How do you know? }\end{array}$
$84,63,56,140$ and 133 are all multiples of 7 . The first three are in the 7 times table; children should recognise 140 as a multiple of $7(2 \times 7 \times 10)$ and 133 is 7 less than 140 so is also a multiple of 7 .

Complete this grid as fast as you can.
Can you solve the puzzle in under one minute?!

|  | $\mathbf{7}$ | $\mathbf{1 2}$ | $\mathbf{9}$ |
| :---: | :---: | :---: | :---: |
| $\mathbf{6}$ | 42 | 72 | 54 |
| 7 | 49 | 84 | 63 |
| $\mathbf{8}$ | 56 | 96 | 72 |

Children not as confident with related division facts may struggle with this. Practise those as regularly as the multiplication facts.

Write common multiples of 4 and 6 up to 60 . What is the lowest common multiple? 12 (lowest), 24, 36, 48 and 60.
Use this information to find the lowest common multiple of 8 and 12. 24: the common multiples of 8 and 12 are double those of 4 and $6(24,48,72 \ldots$ ).

