## Autumn 1 <br> Challenge 4

## Put your entry in the CMC box by the end of school on:

## Tuesday 19th November

## EYFS (Nursery and Reception)

Patterns are everywhere! Look around your house and see what repeating patterns you can find, or make a repeating pattern using things in your house. Draw the repeating pattern and then describe it. How many patterns can you make?


## KS1 (Year 1 \& 2)



Lottie bought a lollipop. It cost 6p. She paid for it exactly. Which coins did she use? There are 5 different ways to do it. Find as many as you can.
What if the lollipop cost 7p?

## Lower KS2 (Year 3 \& 4)

Polly placed 6 squares edge to edge like this to make a symmetrical shape.


She then moved the 6 squares to make another symmetrical shape.
What different symmetrical shapes can be made from 6 squares? Find as many different symmetrical shapes as you can. Draw each shape on squared paper (at the office) and mark the lines of symmetry.

## Upper KS2 (Year 5 \& 6)

Here are 3 identical rectangles. Part of each shape has been shaded. What fraction of the middle shape is shaded?
a)


b)

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[^0]:    Remember you can work the challenge out any way you would like to: draw pictures, use materials like buttons as counters, count in your head... Just make sure you show this on your solution paper!

