

## Fractions problem solving taken from Nrich.maths.org

Try some of these problems, don't worry if you find some of them too tricky.

### 1) Equal parts

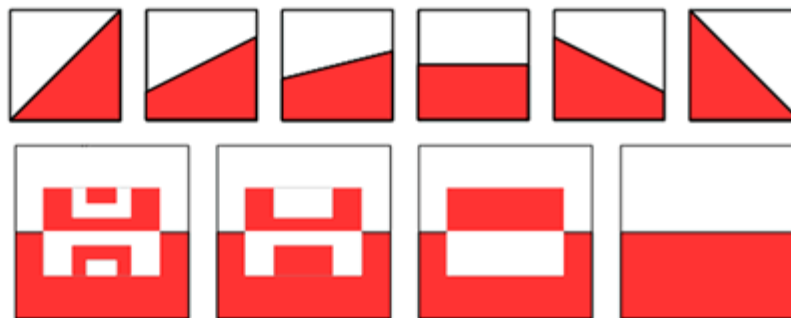
Here is a picnic that Petros and Michael are going to share equally.



Can you tell us what each of them will have?

### 2) Halving

These images show squares split in half:

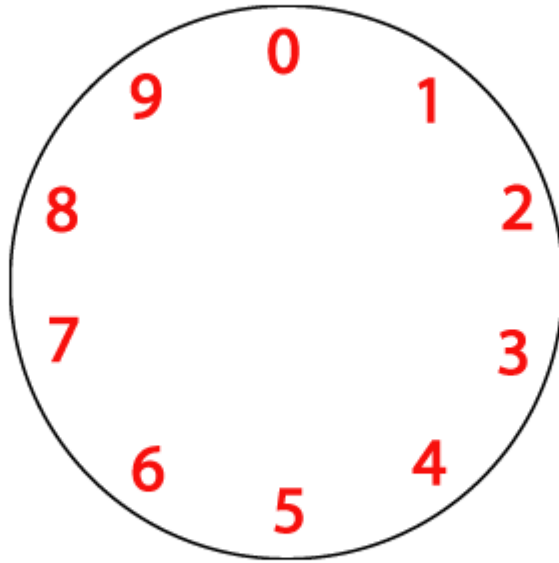


How might you check that each was correct?

Can you think of more ways to split a square into two halves?

### 3) Dividing a cake

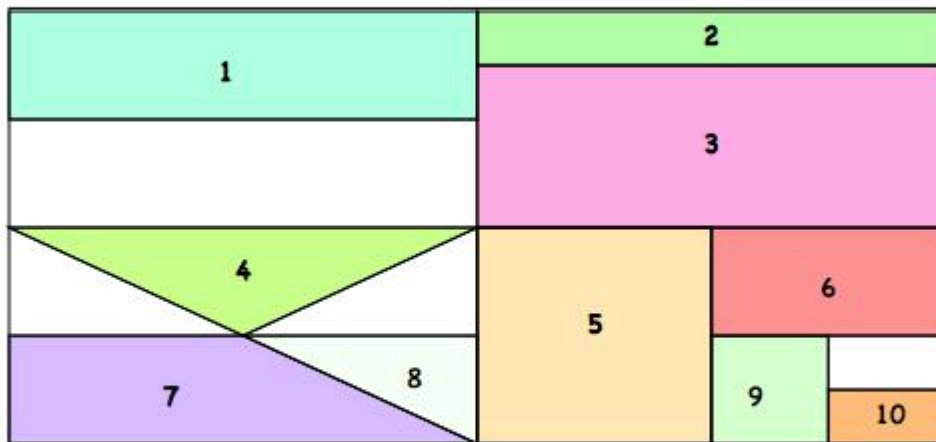
On Annie's ninth birthday her Mum made her a cake which had the figures from 0 to 9 round the edge in red icing instead of candles.



Starting from the centre, Annie cut the cake into 3 pieces with 3 cuts so that the numbers on each piece added to the same total.

Where were the cuts and what fraction of the whole cake was each piece?

### 4) Rectangle tangle



The large rectangle above is divided into a series of smaller quadrilaterals and triangles. Each of the shapes is a fractional part of the large rectangle.

Can you untangle what fractional part is represented by each of the ten numbered shapes?