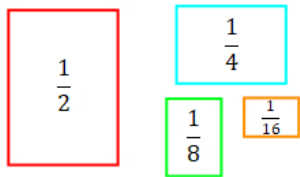# Friday's Fraction Addition Challenge

To complete this challenge, you will need 5 pieces of plain paper and a pair of scissors.
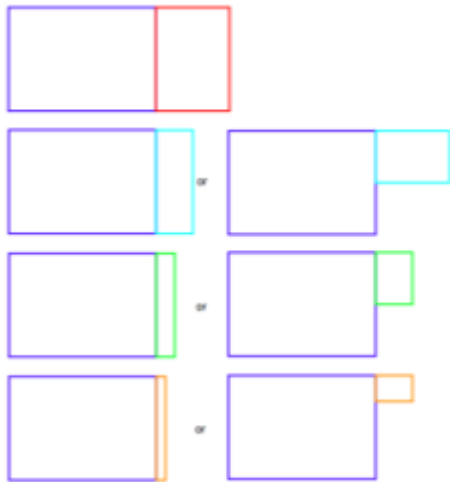
1. Start by folding a piece of paper to represent these fractions: $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{16}$

Can these fractions be represented another way? By folding the paper differently maybe?

$\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{8}$ $\frac{1}{16}$

2. Now, get four pieces of A4 paper and attach one to each of your fraction pieces. Remember that the full piece of A4 paper is counted as "one whole".

You should end up with combinations that look a bit like the ones below. These are mixed numbers of pieces of A4 paper now, because they have a whole number part and a fraction part.

or

or

or

What mixed number is represented by each?

3. Now use your mixed number shapes to create a series of calculations. How many different number sentences can you make?

For example, the addition below would give you $1\frac{1}{4} + 1\frac{1}{2} = 2\frac{3}{4}$.