

PUZZLERS

Teachers are encouraged to photocopy this page for use in class.





My coat has three different buttons. Sometimes, I do them up starting with the top button. Sometimes, I start somewhere else. How many ways can you find to do up my coat? How will you remember them? Do you think there are any more? How do you know?

http://nrich.maths.org/7227&part=





There are four sets of tea cups and saucers: a set of white, a set of red, a set of blue and a set of green. In each set there are four cups and four saucers. So there are sixteen cups and sixteen saucers altogether. How many different combinations of cups and saucers can you create? Estimate before you try and solve this.

Make sure they are all different!

https://nrich.maths.org/32



YEARS 1 AND 2 LAWN BORDER

If I use 12 tiles to make a lawn, how many tiles would I need to make a border? How many differently shaped lawns can you make with 12 tiles? Do you need a different number of border tiles to go around each lawn shape? Can you make models to show what the different gardens would look like?

https://nrich.maths.org/97



YEARS 5 AND 6 SEALED SOLUTION

A set of ten cards, each showing one of the digits from 0 to 9, is divided up between five envelopes so that there are two cards in each envelope. The sum of the two numbers inside it is written on each envelope: 7, 8, 13, 14, 3.

What numbers could be inside the 8 envelope?

https://nrich.maths.org/1177

PRIME NUMBER: VOLUME 32, NUMBER 4. 2017 © The Mathematical Association of Victoria