



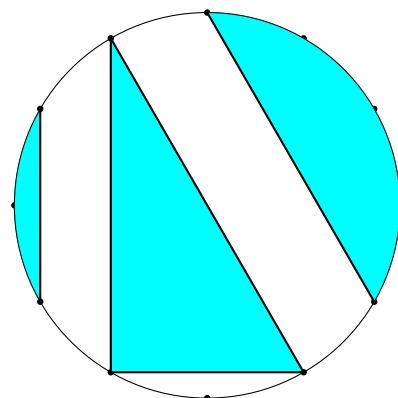
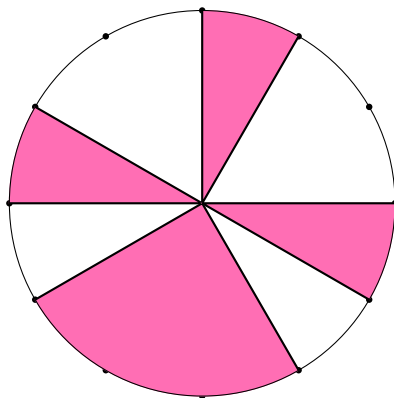
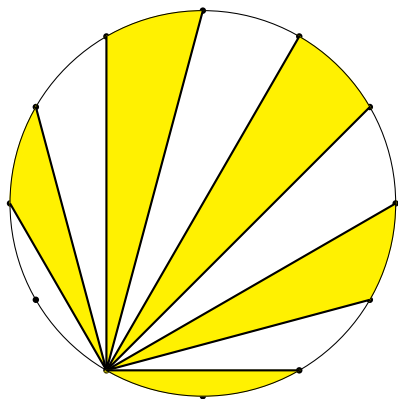
Welcome to this week's Maths Challenge!

It's fine to have a go at both questions!

Solutions must be explained in detail, responses with just the answer may be ignored.

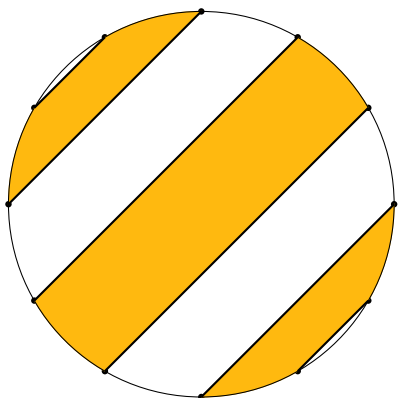
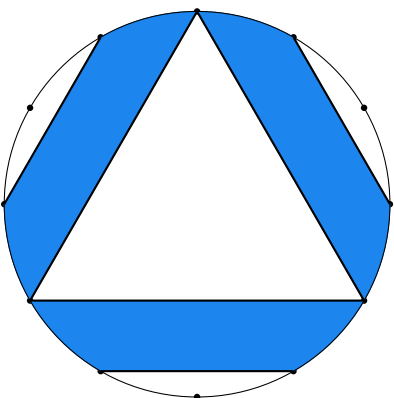
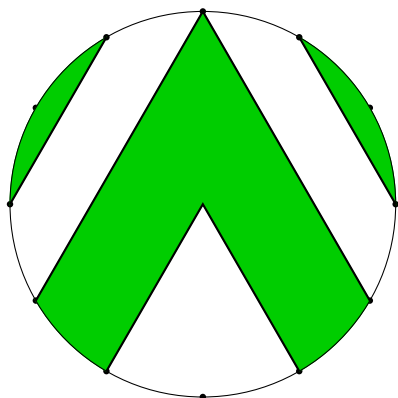
Drop your solution in the box in the staffroom by Tuesday.

Year 8 and below



Each picture is a circle with twelve points spread equally around the circumference, like the hour marks on a clock face. Find the proportion of each circle that is shaded. Three questions in one!

Year 9 and above



These are harder versions of the three circles in the Year 8 and below box, give those a try to warm up! As with those questions, each of these three pictures is a circle with twelve points spread equally around the circumference. The only other point used is the centre of the first circle (with the green shading). Find the proportion of each circle that is shaded.