

# ENP Maths Challenge

Try these puzzling problems. No calculators!

Question 1 is easier than Question 2.

## Week 41

### Question 1

How many square millimetres are there in one square centimetre?

- A 1            B 10            C 100            D 1000            E It depends on the shape

### Question 2

The football shown is made by sewing together 12 black pentagonal panels and 20 white hexagonal panels. There is a join wherever two panels meet along an edge. How many joins are there?

- A 20            B 32            C 60            D 90            E 180



## Answers to last week's puzzle

### Question 1

The fraction is equal to  $\frac{12345}{15}$  or  $12345 \div 15$ .

This obviously is not going to equal 1, 8 or 12359.

Dividing an odd number by another odd always gives an odd answer, so the solution must be D.

### Question 2

If the Knave of Hearts is telling the truth then so is the Knave of Diamonds.

If the Knave of Heart is lying then the Knaves of Clubs and Spade are telling the truth.

Either way, two are telling the truth, so the answer is B.