

### Sixth Day of Christmas walkthrough

The 6 geese and 3 hens cannot be next to each other. They can only be fit into the grid on the 9 grey squares in the diagram


#### B3 is a Partridge (given)

Now each of the 4 Calling Birds needs to be adjacent to two of the Hens but not to another CB. This can only be achieved if the centre is a Hen, the two possible configurations being:

Goose		Hen		Goose
	Bird	Partridge	Bird	
Goose		Hen		Goose
	Bird		Bird	
Goose		Hen		Goose

or

Goose		Goose		Goose
	Bird	Partridge	Bird	
Hen		Hen		Hen
	Bird		Bird	
Goose		Goose		Goose

So we know

**C3 is a Hen; A1, A5, E1 & E5 are Geese; B2, B4, D2 & D4 are Birds.**

We learn that the 5 Rings are adjacent to all 4 bird varieties apart from Partridge, i.e. they must be next to a Goose, Hen, Bird and Dove. In the above diagrams the green squares are adjacent to Goose, Hen, Bird but not Partridge. Clearly the 2<sup>nd</sup> diagram is correct, and the green squares are Rings. The Doves must be in C2 & C4. The solution is

Goose		Hen		Goose
Ring	Bird	Partridge	Bird	Ring
Goose	Dove	Hen	Dove	Goose
Ring	Bird	Ring	Bird	Ring
Goose		Hen		Goose

It's just as well there are no more birds to fit in...