Introducing Rectangles step-by-step

- Put up the first examples, using different colours for the rectangles if you have them.
- Have the class figure out the rules.
- You may need to emphasise that a square is indeed a rectangle. I usually ask something like "are puppies animals?" and talk about special cases.

3	3			
		4		3
			2	
2			3	
	5			

- Then work through the second example together, insisting that they use words to describe what they want you to do and that they justify their choices each one should be the **only possible choice** at that point.
- While some students will be able to produce long chains of logic, try to encourage short ones so that the entire group can follow ("where do we know for sure a rectangle has to go?")
- A useful technique that some people miss is to look for a square which is reachable by only one number, such as the one marked *.

	*	2			
	2			2	2
4	4				
		8			
2			6		
		2			8
			7		

- In a well-constructed puzzle, there is only one possible answer.
- Hand out the first sheet and start walking around; most students don't need a
 lot of help. If someone is stuck, the best thing is to erase it all and start again –
 somewhere they probably guessed or miscounted squares
- When a student has finished the sheet and you have checked it, give the student the next sheet. I use different colours for different levels, so it is easy to figure out who needs which sheet next.