Compare Area of Rectangles **Answers**

1. Here are some rectangles drawn to scale. Measure and calculate the area of each rectangle. Compare each pair of rectangles using **<**, **>** or **=**.

Number	Length	Width	Area =		Length	Width	Area =
a.	6cm	4cm	**24cm²**	**=**	8cm	3cm	**24cm²**
b.	6cm	6cm	**36cm²**	**>**	7cm	5cm	**35cm²**
c.	4cm	7cm	**28cm²**	**>**	9cm	3cm	**27cm²**

2. Look at the dimensions of these rectangles. Can you complete the table by comparing each pair of rectangles?

Rectangle A		Rectangle B
9m × 6m Area = **54m²**	**<**	8m × 7m Area = **56m²**
9m × 9m Area = **81m²**	**>**	10m × 8m Area = **80m²**
12m × 6m Area = **72m²**	**=**	8m × 9m Area = **72m²**

3. Draw two rectangles with a difference of **1cm²** and compare them using **<** or **>**.

Accept any two rectangles with a difference of 1cm².

4. **Rectangles must always have the same length and width in order to have the same area.** Is this statement true or false? Explain your answer fully.

Accept any explanation that shows that the statement is false. For example, a rectangle could be 5cm in length, 4cm in width and have an area of 20cm² while another could have a length of 20cm, a width of 1cm and also have an area of 20cm².