

## **Using Scale Factors**

## Reasoning and Problem Solving

Draw a rectangle 3 cm by 4 cm. Enlarge your rectangle by scale factor 2. Compare the perimeter, area and angles of your two rectangles.	The perimeter has doubled, the area is four times as large, the angles have stayed the same.	Jack says: The purple triangle is green triangle enlarged by scale factor 3	Possible answer I do not agree because Jack has increased the green shape by adding 3 cm to each side, not increasing it by a scale factor of 3
Here are two equilateral triangles. The blue triangle is three times larger than the green triangle.	The blue triangle has a perimeter of 15 cm.	4 cm 8 cm	
∠ 5 cm	The green triangle has a perimeter of 5 cm.	6 cm 7 cm	
(Not drawn to scale)		Do you agree? Explain why.	
Find the perimeter of both triangles.			



## **Calculating Scale Factors**

## **Reasoning and Problem Solving**

