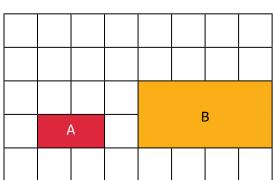
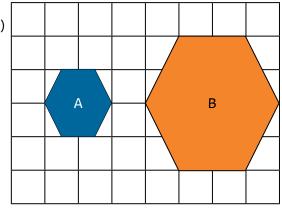
1) In each example, shape A has been enlarged by a different scale factor to create shape B. Write the scale factor enlargement of each shape.





b)

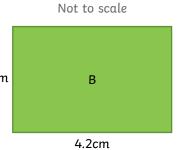


2) Is Odion correct? Explain why.



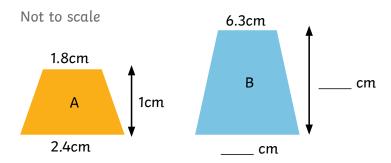
I have enlarged shape A by a scale factor of 3.5.

2.8cm



0.8cm A 1.2cm

3) Shape B has been scaled from shape A. Find the missing side length and height.



1) A rectangle has a perimeter of 8cm. An enlargement of this rectangle has a perimeter of 12cm. The length of the smaller rectangle is 3cm.



Draw both rectangles and describe the scale factor enlargement.

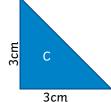




I think that triangles B and C are similar to triangle A.

Not to scale





Do you agree with Michael? Use reasoning to explain your answer.

3) Square A is the original shape. Two friends discuss the possibility of completing a scale factor table, knowing that squares B and C are enlargement of square A.



You cannot complete the table because you don't know the length of square B.



It is possible because you know that square B has been enlarged by a scale factor of 7.

Square	Length of Side	Scale Factor
A	7cm	
В		7
С	35cm	

Which child is correct? Complete the missing boxes in the table to help you explain your answer.

1)	Rectangle A has been enlarged to create rectangle B.				
ı	Use the following clues to identify the scale factor enlargement from rectang	le A to rectangle	В.		
	The perimeter of rectangle A is 10cm.				
	• The length of rectangle A is 3cm.				
	• Shape B has an area of 54cm².				
	C - ft				
	Scale factor enlargement =				
	I have enlarged shape A to create shape B. If I used		Not to scale		
2)	the same scale factor to enlarge shape B to create				
	shape C, shape C would have a length of 8.1cm.		В		
	Raul	i A			
		2.4cm	3.6cm		
l	Do you agree with Raul? Use reasoning to explain your answer.				
-					
-					
-					
		Not to s	cale		
-	The area of this rectangle is 28cm² and the perimeter is 32cm. When enlarged, the length of the longest side increases to 35cm.				
'	What scale factor has the rectangle been enlarged by? Use reasoning to justify your answer.				
4)	Enlarge this shape in three different ways, each time using a scale factor les	s than one whole	2.		
	Not to scale				
E					
5cm					
	10cm				



