







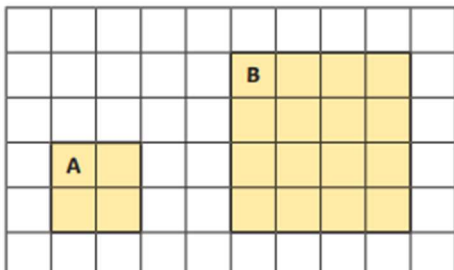


Ratio		Knowledge Organiser
Key Vocabulary	Ratio Language	The Ratio Symbol
ratio	For every 1 circle, there are 2 triangles.	 The ratio of footballs to rugby balls: 1:4 The ratio of rugby balls to footballs: 4:1
proportion		
"for every... there are..."	For every 2 bananas, there are 3 apples.	
part		
whole	For every 1 football, there are 3 rugby balls.	
scale factor		 The ratio of circles to triangles: 2:3 The ratio of triangles to circles: 3:2
enlargement	Ratio and Fractions	
similar shapes	 For every 1 rugby ball, there are 2 footballs. Ratio of rugby balls to footballs: 1:2 $\frac{1}{3}$ of the balls are rugby balls.	 The ratio of apples to bananas: 1:2 The ratio of bananas to oranges: 2:3 The ratio of apples to bananas to oranges: 1:2:3 The ratio of oranges to bananas to apples: 3:2:1
length		
width		
perimeter	 For every 1 triangle, there are 3 squares. Ratio of triangles to squares: 1:3 $\frac{1}{4}$ of the shapes are triangles.	

Ratio	Knowledge Organiser
Ratio and Proportion Problem-Solving	Scale Factors
<p>To use the ingredients for 1 person, you divide all the quantities by 10 ($\div 10$).</p> <p>Ingredients for Fruit Smoothie (serves 10 people)</p> <p>800g of bananas</p> <p>500g of strawberries</p> <p>200g of raspberries</p> <p>700ml of milk</p> <p>300ml of natural yogurt</p> <p>To use the ingredients for 5 people, you halve all the quantities ($\div 2$).</p> <p>To use the ingredients for 20 people, you double all the quantities ($\times 2$).</p> <p>In a bag of 15 sweets, there is 1 smiley face sweet for every 4 love heart sweets.</p> <p>Therefore, there will be 3 smiley face sweets and 12 love heart sweets in the bag.</p>	 <p>Shape A has been enlarged by a scale factor of 2 to make Shape B.</p> <p>Shape B is now two times as big as Shape A.</p> <p>Shape B has been enlarged from Shape A by a scale factor of 3.</p> <p>Shape B is now three times as big as Shape A.</p> 