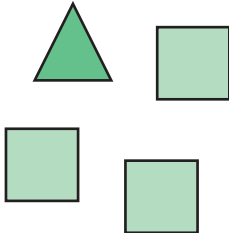


Key Vocabulary	Ratio Language	The Ratio Symbol
ratio	For every 1 circle, there are 2 triangles.	 The ratio of footballs to rugby balls: 1:4 The ratio of rugby balls to footballs: 4:1
proportion		
“for every... there are...”	For every 2 bananas, there are 3 apples.	
part		
whole	For every 1 football, there are 3 rugby balls.	 The ratio of circles to triangles: 2:3 The ratio of triangles to circles: 3:2
scale factor		
enlargement	Ratio and Fractions	
similar shapes		 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	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.	
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.	

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Ratio and Proportion Problem-Solving

To use the ingredients for 1 person, you divide all the quantities by 10 ($\div 10$).

Ingredients for Fruit Smoothie
(serves 10 people)

800g of bananas
500g of strawberries
200g of raspberries
700ml of milk
300ml of natural yogurt

To use the ingredients for 5 people, you halve all the quantities ($\div 2$).

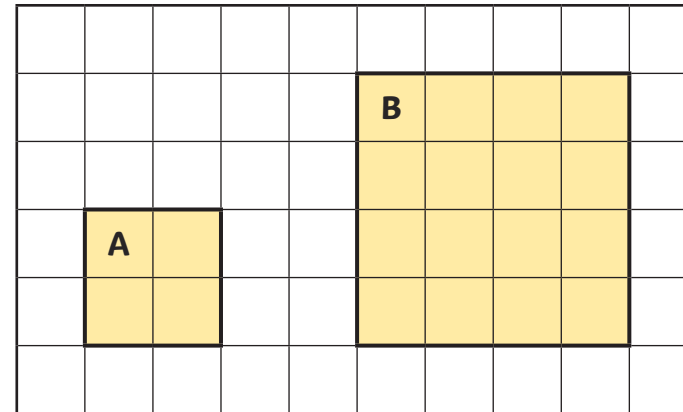
To use the ingredients for 20 people, you double all the quantities ($\times 2$).

In a bag of 15 sweets, there is 1 smiley face sweet for every 4 love heart sweets.

Therefore, there will be 3 smiley face sweets and 12 love heart sweets in the bag.



Scale Factors



Shape A has been enlarged by a scale factor of 2 to make Shape B.

Shape B is now two times as big as Shape A.

Shape B has been enlarged from Shape A by a scale factor of 3.

Shape B is now three times as big as Shape A.

