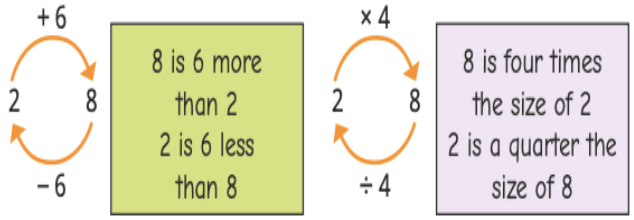
St John Fisher RC Primary School
Year 6 Maths Knowledge Organiser
Spring One - Block 1 – Ratio (1)

Objectives	Teacher
• I can solve problems that involve relative sizes of two things where the missing number can be found by multiplying or dividing by whole numbers.	

Ratio & Proportion

The relationship between 2 and 8 can be described as **additive** or **multiplicative**.



The ratio symbol

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

Ratio Language

For every 1 circle, there are 2 triangles.

For every 2 bananas, there are 3 apples.

For every 1 football, there are 3 rugby balls.

Key Vocabulary

Ratio	The relationship in quantity, amount, or size between two or more things.
Proportion	A part, share or number of a whole amount.
Part	An amount or section of a whole.
Whole	All of something.
Additive	Something produced by adding.
Multiplicative	Something produced by multiplying.

Sentence Stems

_____ x _____ = _____ and _____ + _____ = _____	The ratio of _____ to _____ is _____ : _____
_____ is _____ times the size of _____	For every _____, there are _____

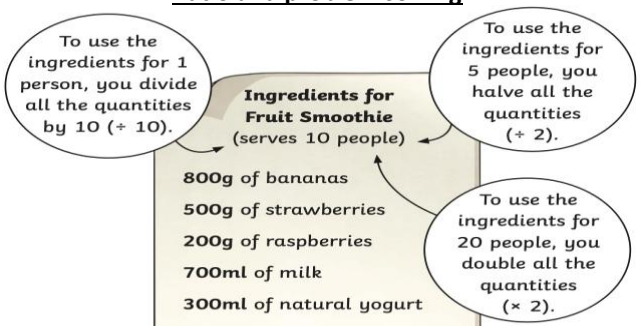
Assessment

St John Fisher RC Primary School
Year 6 Maths Knowledge Organiser
Spring One- Block 1 – Ratio (2)

Objectives	Teacher
• I can solve problems involving unequal sharing and grouping. I can use my knowledge of fractions and multiples to do this.	
• I can solve problems involving shapes where the scale factor is known or can be found.	

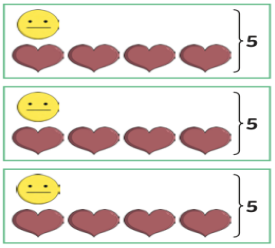
Ration & Proportion

Ratio and problem solving

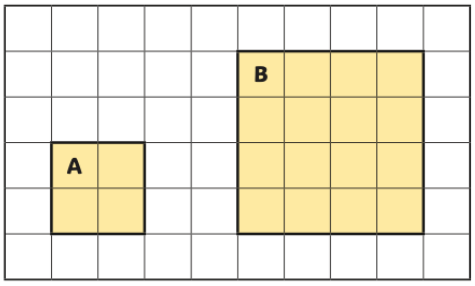


In a bag of 15 sweets, there is 1 smiley face sweet for every 4 love heart sweets.

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



Scale Factors

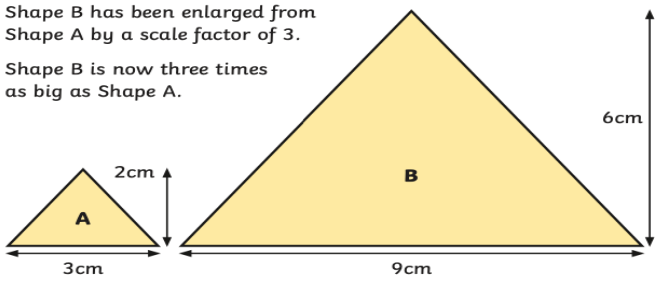


Shape A has been enlarged by a scale factor of 2 to make Shape B.

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.



Key Vocabulary

Ratio	The relationship in quantity, amount, or size between two or more things.
Proportion	A part, share or number of a whole amount.
Part	An amount or section of a whole.
Whole	All of something.
Scale Factor	The amount by which something has be enlarged (made bigger).
Enlargement	To make something bigger.

Sentence Stems

The ratio of _____ to _____ is _____ : _____ There are _____ parts altogether. The fraction that is _____ is _____	_____ squares represents _____, so each square represents _____ The shape is ____ times as big, so the scale factor of the enlargement is _____

Assessment