
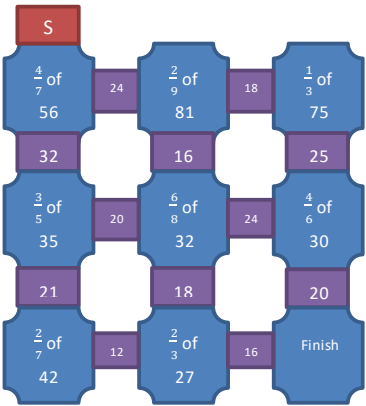




Term by Term Objectives

Year 4

	National Curriculum Statement	All students		
		Fluency	Reasoning	Problem Solving
Fractions	Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.	<ul style="list-style-type: none"> Emily buys a box of 24 chocolates. She eats $\frac{1}{4}$ of the chocolates and her Mum eats $\frac{1}{3}$. How many chocolates are left? George and Grace have ordered lemonade. Grace has a small lemonade which is 250ml. George has a large lemonade which is $\frac{4}{10}$ more than a small. How many millilitres does George have? If George only drinks half of his lemonade and Grace drinks three quarters of her lemonade, who drinks the most? Show your working. 	<ul style="list-style-type: none"> The school kitchen needs to buy potatoes for lunch. A large bag has 200 potatoes and a medium bag has $\frac{3}{5}$ of a large bag. <p>The school cook says</p> <div style="border: 1px solid black; border-radius: 15px; padding: 5px; display: inline-block;">I need 150 potatoes so I will have to buy a large bag</div> <p>Is she correct? Explain your reasoning.</p> <ul style="list-style-type: none"> True or False To find $\frac{3}{8}$ of a number, divide by 3 and multiply by 8. Convince me. 	<ul style="list-style-type: none"> These three squares are $\frac{1}{4}$ of a whole shape.  <p>How many different shapes can you draw that could be the complete shape?</p> Work out the answer to each question to make it through the maze. 

	National Curriculum Statement	All students		
		Fluency	Reasoning	Problem Solving
Fractions	Add and subtract fractions with the same denominator.	<ul style="list-style-type: none"> Calculate:  = Use diagrams and bar modelling to solve the problems below. $\frac{3}{8} + \frac{2}{8} =$ $\frac{1}{6} + \frac{2}{6} =$ $\frac{7}{8} - \frac{2}{8} =$ $\frac{5}{7} - \frac{2}{7} =$ Sarah eats $\frac{3}{8}$ of a bunch of grapes; Tom eats $\frac{2}{8}$ of a bunch of grapes. What fraction of the grapes have they eaten altogether? Fill in the box: $\frac{5}{8} + \square = \frac{7}{8}$ $\frac{5}{6} - \square = \frac{1}{6}$ 	<ul style="list-style-type: none"> Explain what fraction calculation the diagram is showing.  Can you make your own? True or False $\frac{5}{12} + \frac{3}{12} = \frac{8}{12}$ $\frac{5}{12} + \frac{3}{12} = \frac{8}{24}$ $\frac{5}{12} + \frac{3}{12} = \frac{4}{6}$ Explain your reasoning. Describe the pattern: $\frac{7}{10} - \frac{1}{10} = \frac{6}{10}$ $\frac{6}{10} - \frac{1}{10} = \frac{5}{10}$ Can you continue the pattern? 	<ul style="list-style-type: none"> How many different ways can you complete the calculation? $\frac{\square}{\square} + \frac{\square}{\square} = \frac{8}{9}$ $\frac{\square}{\square} - \frac{\square}{\square} = \frac{8}{9}$ How many ways can you complete the calculation? $\frac{2}{7} + \frac{\square}{7} = \frac{7}{7} - \frac{\square}{7}$ How many ways can you complete the calculation? $\frac{\square}{\square} + \frac{\square}{\square} - \frac{\square}{\square} = \frac{7}{9}$