

# Proportion Problems : Maths : Year 4 : Summer Term

	Learning Objective	Overview	Assessment Questions	Resources
<b>Lesson 1</b>	To be able to recognise and show equivalent fractions.	Children will start by recapping exactly what fractions and decimals are, and how the two relate to each other. They will then focus on identifying equivalent fractions using diagrams. For example, in several diagrams with 16 circles, they will identify which has been shaded to represent one quarter. During their independent learning, they can either play an equivalent fraction matching game or complete a 'Colour by Fraction' activity to reveal a picture.	<ul style="list-style-type: none"> <li>• Do children understand that fractions and decimals represent part of a whole?</li> <li>• Can children identify equivalent fractions?</li> <li>• Can children identify equivalent fractions represented pictorially?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Fraction Cards 1A/1B/1C</li> <li>• Fraction Wall</li> <li>• Colour by Fractions sheet (FSD? activity only)</li> <li>• Symbol Cards (plenary)</li> </ul>
<b>Lesson 2</b>	To be able to add and subtract fractions with a common denominator.	In this lesson, children use real-life problems to add and subtract fractions with a common denominator. The slides guide them through some problems to solve, explaining how to add and subtract fractions, including what happens if the answer is larger than one. They are then challenged to solve some addition and subtraction problems independently, including missing number problems.	<ul style="list-style-type: none"> <li>• Can children add fractions with a common denominator?</li> <li>• Can children subtract fractions with a common denominator?</li> <li>• Can children add fractions whose answer is larger than one, converting the answer to a mixed number fraction?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Worksheet 2A/2B/2C</li> <li>• Game Board 2A/2B (FSD? activity only)</li> <li>• Game Cards 2A/2B (FSD? activity only)</li> </ul>
<b>Lesson 3</b>	To be able to find fractions of quantities.	Children will recap how to find fractions of quantities in this lesson. Starting with objects, children will find, e.g. one quarter of 24. They will learn how finding fractions of quantities relates to division, and learn to find unit fractions of increasingly challenging numbers. There is also the opportunity to solve some missing number problems and play a class game of 'Pointless'.	<ul style="list-style-type: none"> <li>• Can children find fractions of objects?</li> <li>• Can children find fractions of numbers?</li> <li>• Can children use division to find fractions of quantities?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Question Cards</li> <li>• Worksheet 3A/3B/3C</li> <li>• Plenary Question Sheet</li> </ul>
<b>Lesson 4</b>	To be able to find fractions of amounts using non-unit fractions.	Moving on from their learning in the previous lesson, children will learn how to find fractions of amounts using non-unit fractions, e.g. finding three fifths of 35. Once they are comfortable with the process for this, they will move on to solving some real-life problems that involve finding fractions of amounts. There are also some challenging tarsia puzzles to solve.	<ul style="list-style-type: none"> <li>• Can children find unit fractions of amounts?</li> <li>• Can children find non-unit fractions of amounts?</li> <li>• Can children solve missing number problems relating to finding non-unit fractions of amounts?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Challenge Cards 4A/4B/4C</li> <li>• Worksheet 4A</li> <li>• Tarsia Puzzle 4A/4B (FSD? activity only)</li> </ul>
<b>Lesson 5</b>	To be able to round decimals with one decimal place to the nearest whole number.	The final lesson in this series looks again at the relationship between fractions and decimals, focussing on the place value of decimal numbers up to two decimal places. Children will then learn how to round numbers with one decimal place to the nearest whole number. They can then complete some crossword puzzles to practise this (as well as consolidating finding fractions of quantities), or play decimal bingo.	<ul style="list-style-type: none"> <li>• Can children link decimals and fractions, explaining the relationship between the two?</li> <li>• Do children understand the place value of numbers with two decimal places?</li> <li>• Can children round numbers with one decimal place to the nearest whole number?</li> </ul>	<ul style="list-style-type: none"> <li>• Slides</li> <li>• Worksheet 5A/5B/5C</li> <li>• Number Vocabulary Card</li> <li>• Bingo Grids (FSD? activity only)</li> <li>• Bingo Decimals Sheet (FSD? activity only)</li> </ul>