

# Fractions and Decimals : Maths : Year 4

	Learning Objective	Overview	Assessment Questions	Resources
<b>Lesson 1</b>	To recognise and write decimal equivalents to fractions, including mixed number fractions.	Children will identify the place value of digits in decimal numbers, and compare them to their equivalent fractions. They will learn how to convert decimal numbers (up to two decimal places) to fractions and vice versa. Following this, children will practise converting between the two.	<ul style="list-style-type: none"> <li>Can children say how many hundredths a number with two decimal places has?</li> <li>Can children convert decimal numbers less than one to fractions and vice versa?</li> <li>Can children convert decimal numbers greater than one to mixed numbers and vice versa?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheet 1A/1B/1C</li> <li>Base 10 resources (for Lower ability Main Activity; optional)</li> <li>Invisible Battleships 1A-1F (FSD...? activity only)</li> <li>Invisible Battleships Instructions (FSD...? activity only)</li> </ul>
<b>Lesson 2</b>	To compare and order whole numbers, decimal numbers and fractions.	Children will compare equivalent fractions firstly using a 'fraction wall', then by dividing the denominator by the numerator. Following this, children will practise comparing and ordering sets of fractions (including mixed number fractions) and decimal numbers to two decimal places	<ul style="list-style-type: none"> <li>Can children identify equivalent fractions using a fraction wall?</li> <li>Can children use a fraction wall to compare and order sets of fractions?</li> <li>Can children compare and order sets of whole numbers, decimal numbers, and fractions?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheets 2A/2B/2C</li> <li>Decimal Dominoes (FSD...? activity only)</li> </ul>
<b>Lesson 3</b>	To find the difference between numbers with up to two decimal places.	Children will learn how to use a formal written method of subtraction to subtract decimal numbers up to two decimal places. They will also learn how to use an informal 'counting on' method to find the difference between two decimal numbers. Following this, children will practise these skills, solving calculations involving three-, four- and five-digit numbers.	<ul style="list-style-type: none"> <li>Can children use a formal written method to subtract decimal numbers less than one?</li> <li>Can children use a mental method to find the difference between similar decimal numbers?</li> <li>Can children use a formal written method to subtract decimal numbers greater than one?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheets 3A/3B/3C</li> <li>Difference Pyramid 3A-3F cards (FSD...? activity only)</li> </ul>
<b>Lesson 4</b>	To add and subtract fractions with the same denominator.	Children will begin by adding equal fractions totalling one or less than one. They will progress to adding fractions totalling more than one, and subtracting a fraction from a mixed number e.g. $1\frac{1}{3} - \frac{2}{3}$ . Following this they will practise adding and subtracting fractions, optionally using maths resources to help them.	<ul style="list-style-type: none"> <li>Can children add and subtract fractions with the same denominator, where the answer is less than one?</li> <li>Can children add and subtract mixed number fractions?</li> <li>Can children multiply or divide a fraction to find a common denominator with another fraction?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheet 4A/4B/4C</li> <li>Unifix® cubes, play dough, bead strings, counters etc.</li> <li>Challenge Card 4 (FSD...? activity only)</li> </ul>
<b>Lesson 5</b>	To solve word problems and present information using fractions and decimals.	Children will practise counting up and down in decimal numbers and fractions. They will then interpret data, given using fractions or decimals, by asking questions and making statements. There is an optional activity where children may practise and consolidate the skills developed during previous lessons.	<ul style="list-style-type: none"> <li>Can children solve one-step word problems involving addition or subtraction of fractions or decimal numbers?</li> <li>Can children interpret data by writing statements including fractions or decimal numbers?</li> <li>Can some children solve two-step fractions/decimals problems about given sets of data?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheets 5A/5B/5C</li> <li>Unifix® cubes, play dough, bead strings, counters etc. (optional)</li> <li>Challenge Cards 5A-5F (FSD...? activity only)</li> </ul>