


















Fractions: Dividing Fractions

<p>Aim: Divide proper fractions by whole numbers.</p> <p>I can divide proper fractions by whole numbers.</p>	<p>Success Criteria:</p> <p>I can change the whole number into a proper fraction.</p> <p>I can invert the whole number fraction and change the division symbol to the multiplication symbol.</p> <p>I can multiply the numerators together first and multiply the denominators together second.</p> <p>I can reduce a fraction to its simplest form by dividing the numerator and denominator by the greatest common factor.</p>	<p>Resources: Lesson Pack</p>
<p>Key/New Words: Fraction, simplify, greatest common factor, numerator, denominator.</p>	<p>Preparation: Differentiated Dividing Fractions Activity Sheets - 1 per child</p> <p>Extra Challenge Activity Sheet - as required</p> <p>Dividing Fractions Display Poster - as required</p>	

Prior Learning: It will be helpful if children have experience of multiplying proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.

Learning Sequence

	<p>Fraction Counting Stick: Shown on the Lesson Presentation is a partially labelled fraction stick. The children identify the fraction the arrow is pointing at, and then give an equivalent fraction.</p>	
	<p>Dividing Fraction Calculation: Working with a partner, the children discuss how they would find the answer to the calculation displayed on the Lesson Presentation.</p>	
	<p>Dividing Proper Fraction: Use the text and images displayed on the Lesson Presentation to demonstrate how to divide a proper fraction by a whole number.</p>	
	<p>Method: Use the text and images displayed on the Lesson Presentation to outline the step-by-step method for dividing a proper fraction by a whole number. The Dividing Fractions Display Poster can be used as a reference.</p>	
	<p>Partner Question: Working with a partner, the children apply the learning from the previous slides to calculate the answer to the question displayed on the Lesson Presentation.</p>	
	<p>Dividing Fractions: Children complete the differentiated Dividing Fractions Activity Sheets, to show they can divide proper fractions by whole numbers.</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div data-bbox="215 1525 555 1615">  <p>Divide simple fractions by whole numbers, showing working out.</p> </div> <div data-bbox="614 1525 970 1641">  <p>Divide fractions that require simplifying by whole numbers, showing working out.</p> </div> <div data-bbox="1013 1525 1369 1697">  <p>Divide a proper fraction by a proper fraction, showing working out. An Extra Challenge Activity Sheet is also included.</p> </div> </div>	
	<p>Reveal the Picture: On the Lesson Presentation is a hidden picture which is revealed square by square by correctly answering questions involving dividing a proper fraction by a whole number.</p>	

Masterit

Correctit: The children write a calculation involving dividing a proper fraction by a whole number, but make one deliberate mistake. See if a friend can correct the mistake.

Investigateit: Choose a proper fraction and then divide it by different whole numbers up to 10. What patterns can children spot in the answers?