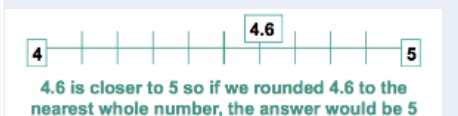
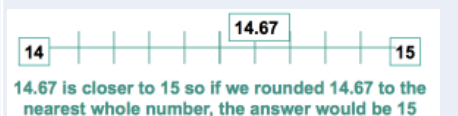
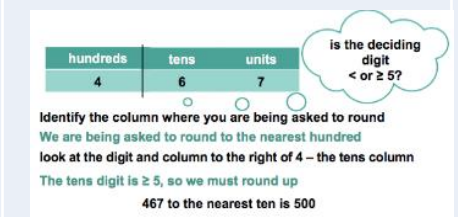
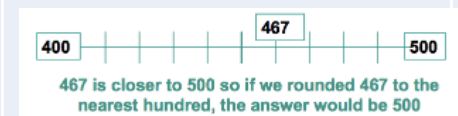
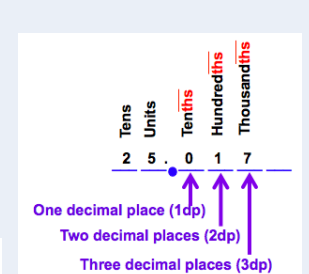
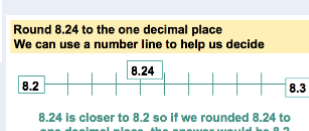


Rounding

Keywords:	Rounding / decimal place / significant figure / estimate /												
Definition / Description:	Rounding: the process of adjusting a number to make it more convenient but still keeping its value as close to what it was.	Decimal Place: The position of a digit after a decimal point	Significant figure: refers to the size of the number within the place value chart and not the physical size of the individual number	Estimate: To give an approximation of an actual value									
Knowledge points:	Rounding rules The digit to the right of the digit you are rounding is the deciding digit. If the deciding digit is 5 or above the digit you round up. If the deciding digit is 4 or below the digit you are rounding remains the same	Rounding to the nearest units / ten / hundred etc This refers to the column that is to be rounded within the place value chart. Rounding rules are applied to the deciding digit	Rounding to a given number of decimal places A decimal place refers to the number of digits to the right of the decimal point	Rounding to a given number of significant figures The first significant figure of a number is the first digit which is not a zero. The second / third and fourth significant figures are the digits immediately following the first significant figure / including zeros.									
Knowledge point examples:	<p>1) Round 48 to the nearest 10</p> <p>4 is in the <i>tens</i> column → 48 ← 8 is the DECIDING DIGIT</p> <p>(If the deciding digit is greater than or equal to 5, we round up) So 48 is rounded to 50.</p>  	 	 <p>Round 8.24 to the one decimal place We can use a number line to help us decide</p> 	<p>For example, 4 890 351</p> <p>This is the first significant figure</p> <p>0.0007506</p> <p>This is the first significant figure</p> <p>For example, 4 890 351</p> <p>This is the forth significant figure</p> <p>0.0007506</p> <p>This is the third significant figure</p> <p>Rounding whole numbers to 3 s.f</p> <table border="0"> <tr> <td>5 4 7 2</td> <td>8 3 7 9 8</td> <td>9 7 4 9 7 8</td> </tr> <tr> <td>5 or bigger? ↓ No</td> <td>5 or bigger? ↓ Yes</td> <td>5 or bigger? ↓ Yes</td> </tr> <tr> <td>5 470</td> <td>83 800</td> <td>975 000</td> </tr> </table>	5 4 7 2	8 3 7 9 8	9 7 4 9 7 8	5 or bigger? ↓ No	5 or bigger? ↓ Yes	5 or bigger? ↓ Yes	5 470	83 800	975 000
5 4 7 2	8 3 7 9 8	9 7 4 9 7 8											
5 or bigger? ↓ No	5 or bigger? ↓ Yes	5 or bigger? ↓ Yes											
5 470	83 800	975 000											

Linked Knowledge Maps	Multiples, Primes, Factors / Percentages / Ratio and scale / Estimation and Bounds / Place Value
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