



St John Fisher RC Primary School

Year 5 Maths Knowledge Organiser

Spring Term Two: Decimals and Percentages

Objectives	Teacher
To understand equivalent fractions and decimals.	
To understand how to order and compare decimals.	
To understand how to round to the nearest whole number.	
To1 understand how to round to 1 decimal place.	

Equivalent fractions and decimals	Round to the nearest whole number																																																																																																																								
<div style="text-align: center;"> <p>one whole</p> <table border="1" style="margin: auto;"> <tr> <td>$\frac{1}{10}$</td><td>$\frac{1}{10}$</td><td>$\frac{1}{10}$</td><td>$\frac{1}{10}$</td><td>$\frac{1}{10}$</td><td>$\frac{1}{10}$</td><td>$\frac{1}{10}$</td><td>$\frac{1}{10}$</td><td>$\frac{1}{10}$</td><td>$\frac{1}{10}$</td> </tr> <tr> <td>0.1</td><td>0.1</td><td>0.1</td><td>0.1</td><td>0.1</td><td>0.1</td><td>0.1</td><td>0.1</td><td>0.1</td><td>0.1</td> </tr> </table> </div> <div style="margin-top: 20px;"> <table border="1" style="width: 100px; height: 100px; border-collapse: collapse;"> <tr><td style="background-color: #90EE90;"> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </table> <div style="margin-left: 100px;"> <p>Fraction $\frac{9}{100}$</p> <p>Decimal 0.09</p> </div> </div>	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1																																																																																																					<div style="text-align: center;"> <p>12.3</p> </div> <p>12.3 is between <u>12</u> and <u>13</u></p> <p>The nearest whole number to 12.3 is <u>12</u></p> <p>12.3 rounded to the nearest whole number is <u>12</u></p>
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Key Vocabulary	
Rounding	To alter a number to a more convenient near amount to work with. Ideal for estimating answers.
Compare	To use place value to identify if a number is larger than (>) , smaller than (<) or equal to (=) another.
Order	To place numbers in an ascending (smallest to largest) or descending (largest to smallest) list.
Percentage %	A number that is a fraction of out of 100. In Latin per = of and cent = 100 .
Equivalent	Equal to or the same as.

Sentence Stems	
The decimal ____ is equivalent to the fraction ____	To compare ____ and ____ , I need to first look at the ____ column.
____ rounded to the nearest whole number is ____	Halfway between ____ and ____ is ____

Assessment (Self-Assessment)