

Decimals

Knowledge Organiser

Key Vocabulary	Place Value									Fractions to Decimals																																																			
decimal place	<table border="1"> <thead> <tr> <th>Tens</th> <th>Ones</th> <th>tenths</th> <th>hundredths</th> <th>thousandths</th> </tr> </thead> <tbody> <tr> <td></td> <td>1 1 1</td> <td>0.1 0.1 0.1 0.1</td> <td>0.01 0.01</td> <td>0.001 0.001 0.001 0.001</td> </tr> <tr> <td colspan="5" style="text-align: center;"> $3 + \frac{4}{10} + \frac{2}{100} + \frac{6}{1000} \leftarrow 3.426 \rightarrow 3 + 0.4 + 0.02 + 0.006$ </td> </tr> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td> </tr> <tr> <td>0.1</td><td>0.2</td><td>0.3</td><td>0.4</td><td>0.5</td><td>0.6</td><td>0.7</td><td>0.8</td><td>0.9</td> </tr> <tr> <td>0.01</td><td>0.02</td><td>0.03</td><td>0.04</td><td>0.05</td><td>0.06</td><td>0.07</td><td>0.08</td><td>0.09</td> </tr> <tr> <td>0.001</td><td>0.002</td><td>0.003</td><td>0.004</td><td>0.005</td><td>0.006</td><td>0.007</td><td>0.008</td><td>0.009</td> </tr> </tbody> </table>									Tens	Ones	tenths	hundredths	thousandths		1 1 1	0.1 0.1 0.1 0.1	0.01 0.01	0.001 0.001 0.001 0.001	$3 + \frac{4}{10} + \frac{2}{100} + \frac{6}{1000} \leftarrow 3.426 \rightarrow 3 + 0.4 + 0.02 + 0.006$					1	2	3	4	5	6	7	8	9	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.001	0.002	0.003	0.004	0.005	0.006	0.007	0.008	0.009	$\frac{7}{20} = \frac{35}{100}$ or 0.35 $\frac{7}{25} = \frac{28}{100}$ or 0.28 $\frac{7}{50} = \frac{14}{100}$ or 0.14 $\frac{8}{200} = \frac{4}{100}$ or 0.04
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Dividing Decimals by Integers

$8.12 \div 4$

	2	0	3
4	8	1	2

$6.93 \div 3 = 2.31$

Ones	tenths	hundredths
1 1	0.1 0.1 0.1	0.01
1 1	0.1 0.1 0.1	0.01
1 1	0.1 0.1 0.1	0.01

Rounding Decimals

2.637 rounded to the nearest tenth is 2.6.
2.637 rounded to the nearest hundredth is 2.64.

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Multiplying and Dividing by 10, 100 and 1000							Decimal Numbers as Fractions																																																
Thousands	Hundreds	Tens	Ones	tenths	hundredths	thousandths	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1																																							
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