



Key Vocabulary	Place Value									Fractions to Decimals																																				
decimal place	<table><tr><td>Tens</td><td colspan="3">Ones</td><td>•</td><td colspan="4">tenths</td><td colspan="2">hundredths</td><td colspan="4">thousandths</td></tr><tr><td></td><td>1</td><td>1</td><td>1</td><td></td><td>0.1</td><td>0.1</td><td>0.1</td><td>0.1</td><td>0.01</td><td>0.01</td><td></td><td>0.001</td><td>0.001</td><td>0.001</td><td>0.001</td><td>0.001</td><td>0.001</td></tr></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	0.001	0.001	$\frac{7}{20} = \frac{35}{100}$ or 0.35			
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	0.001	0.001																													
decimal fraction										$\frac{7}{25} = \frac{28}{100}$ or 0.28																																				
recurring decimal										$\frac{7}{50} = \frac{14}{100}$ or 0.14																																				
equivalent fraction										$\frac{8}{200} = \frac{4}{100}$ or 0.04																																				
tenth	<div>$3 + \frac{4}{10} + \frac{2}{100} + \frac{6}{1000}$ ← 3.426 → $3 + 0.4 + 0.02 + 0.006$</div>									When the denominator is not a factor or multiple of 100																																				
sharing	<table><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></table>									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	$\frac{7}{8} = 7 \div 8$
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																																						
partitioning										<table><tr><td></td><td>0</td><td>8</td><td>7</td><td>5</td></tr><tr><td>8</td><td>7</td><td>0</td><td>0</td><td>0</td></tr></table>		0	8	7	5	8	7	0	0	0																										
	0	8	7	5																																										
8	7	0	0	0																																										
exchanging																																														
rounding to 3d.p.																																														

Dividing Decimals by Integers

$$8.12 \div 4$$

	2	0	3
4	8	1	¹ 2

$$6.93 \div 3 = 2.31$$

Ones	tenths	hundredths
<div>1 1</div>	<div>0.1 0.1 0.1</div>	<div>0.01</div>
<div>1 1</div>	<div>0.1 0.1 0.1</div>	<div>0.01</div>
<div>1 1</div>	<div>0.1 0.1 0.1</div>	<div>0.01</div>