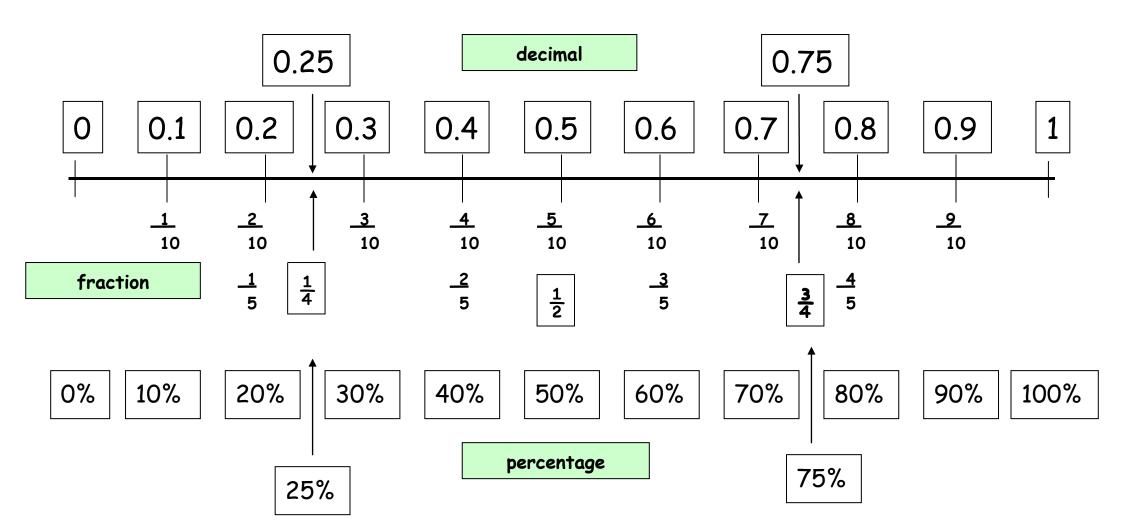


Fractions, decimals and percentages are all ways of showing numbers which are not whole, but 'parts' of numbers, shapes or quantities.

	$\frac{3}{4}$ $\frac{1}{2}$	Fractions indicate parts or portions of a shape, number or quantity.	Vocabulary
Fractions	$\frac{\frac{2}{3}}{\frac{1}{4}}$ $\frac{\frac{5}{8}}{\frac{1}{4}}$	The bottom number (denominator) indicates the number of segments/ parts something is 'split' into. The top number (numerator) indicates how many of those parts are involved	fraction decimal percentage decimal place
Decimals	0.2 0.25	Decimal fractions have place value, getting smaller by a tenth as they move away from the decimal point.	numerator denominator
	0.294 0.83	The first decimal place (next to the point) has a value of tenths; the next, hundredths etc.	part portion
	£3.57	They are commonly used for measures, including money.	proportion
Percentages	50% 10% 100% 2.5% 200%	Percentages indicate parts of 100. 1% is one hundredth of a quantity, so 50% indicates one half. They are closely related to decimals to 2 decimal places.	half, quarter, third, fifth etc tenth hundredth



## Fractions, Decimals, Percentages



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## Equivalent Fractions, Decimals and Percentages

Fraction	Decimal	Percentage		
<u>1</u> 2	0.5	50%		
$\frac{1}{4}$	0.25	25%		
3/4	0.75	75%		
1/3	0.333	33.33 %		
2/3	0.666	66.66 %		
1/5	0.2	20%		
2/5	0.4	40%		
3/5	0.6	60%		
1/6	0.166	16.66 %		
1/8	0.125	12.5%		
1/9	0.111	11.11%		
5/9	0.555	55.55%		
1/10	0.1	10%		
2/10	0.2	20%		
3/10	0.3	30%		
1/20	0.05	5%		
1/25	0.04	4%		
1/50	0.02	2%		
1/100	0.01	1%		



Equivalent Fraction Grid

Highlight two numbers in the first column to make any fraction.

Highlight two numbers in the same rows, which are both in the same column (to make the 4 corners of a rectangle).

1	2	3	4	5	6	7	8	9	10
2	4	6	8	10	12	14	16	18	20
3	6	9	12	15	18	21	24	27	30
4	8	12	16	20	24	28	32	36	40
5	10	15	20	25	30	35	40	45	50
6	12	18	24	30	36	42	48	54	60
7	14	21	28	35	42	49	56	63	70
8	16	24	32	40	48	56	64	72	80
9	18	27	36	45	54	63	72	81	90
10	20	30	40	50	60	70	80	90	100

These two will make an equivalent fraction.

1/5 = 9/45

2/7 = 12/42

To make equivalent fractions multiply the numerator and the denominator by the same number.