# <u>Fractions and Decimals (Part 2)</u> <u>A quick recap for decimals</u>

The word "Decimal" really means "based on 10" (From Latin *decima*: a tenth part). We sometimes say "decimal" when we mean anything to do with our numbering system, but a "decimal number" usually means there is a decimal Point.



Decimals, Fractions and Percentages are just different ways of showing the same value:



We can convert between percentages, fractions and decimals. Some hints:

- Remember percent means 'out of 100' so if you can convert a fraction into hundredths then it's easy to change into a percentage.
- To change a percentage to a fraction, you will need to use the denominator 100 you may then need to simplify.
- Remember what each digit represents in a decimal (look above). This will help you convert into fractions with 10 or 100 as the denominator.
- Sometimes converting a percentage into a fraction then makes it easier to convert it to a decimal and...converting a decimal into a fraction can then make it easier to convert it into a percentage!

## Identifying the value of decimal digits

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0.14	0.4	0.56	0.63	0.41	0.42	0.36	0.87
0.24	0.08	0.13	0.51	0.96	0.73	0.59	0.86
0.77	0.1	0.12	0.6	0.17	0.74	0.29	0.34
0.67	0.01	0.22	0.69	0.55	0.61	0.26	0.33
0.28	0.79	0.03	0.54	0.61	0.09	0.66	0.5
0.07	0.52	0.19	0.72	0.56	0.42	0.78	0.05

Find all the numbers above that have the following:

7 in the tenths place	
4 in the hundredths place	
1 in the tenths place	
3 in the hundredths place	
5 in the tenths place	
9 in the hundredths place	
2 in the tenths place and 6 in the hundredth place	

### Activity 2

Activity 1



### Recall and use equivalences

#### Activity 1

Complete the following word problems but converting between fractions and percentages.

1. 25% of a class join the chess club. What fraction of children do not join the chess club?

2. A third of a box of crisps are salt and vinegar flavour. 50% are ready salted. The rest are cheese and onion. What fraction of the crisps are cheese and onion?

3. There are 30 children in a class, of whom twelve are boys. What fraction of the class are girls?

4. Seven tenths of a crowd at a football match support the home team. If the rest are all away fans, what percentage of the crowd support the away team?

5. There are 80 sweets in a bag. Complete the following table showing the number, fraction and percentage of each flavour.

Flavour	Number	Fraction	Percentage
Orange	20		
Strawberry	16		
Lime	44		







**Activity 2:** Can you work out these common equivalences? Complete any workings underneath the table.

Fraction	<b>Decimal Fraction</b>	Percentage
		40%
	0.50	
1 4		
		80%
	0.30	
1 5		
	0.75	
7 25		