

3.1 Exploring decimals

Remember

Place value – the position of a digit in a number gives its value.
 The decimal point separates whole numbers from decimal places.

T	O	t	h
4	3	9	8

Read as forty-three point nine eight.

When **comparing decimals**, look **carefully** at what zeros mean in decimal numbers.

These are all **worth** the same: 9 9.0 9.00

These are not worth **the same**: 9 0.9 0.09

Write down the value of the digit 3 in each of these numbers:

a) 72.3

b) 84.03

c) 5.53

Look and learn

♦ Tenth: a tenth is 1 part in 10 ($\frac{1}{10}$) of a whole and can be written as 0.1.

H	T	O	t
		0	1

♦ Hunderdth: a hunderdth is 1 part in 100 ($\frac{1}{100}$) and can be written as 0.01

H	T	O	t	h
		0	0	1

Write these numbers in figures:

a) fifteen point three seven

.....

one hundred and five point zero five

.....

thirty-four point three four

.....

Primary Mathematics

a) Write these five numbers in a place value chart.

0.7 0.13 0.4 0.08 0.67

The first one has been done for you.

H	T	U	.	t	h
		0	.	7	

b) Which of the five numbers are greater than 0.5?

Write the correct sign $>$ or $<$ between each pair of numbers.

a) 3.4 3.04

b) 4.5 4.55

c) 3.83 3.38

d) 1.14 1.2

e) 0.7 0.07

f) 4.2 3.9