

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
.....

Write these numbers in figures:

a) fifteen point three seven
.....

one hundred and five point zero five
.....

c) thirty-four point three four
.....

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

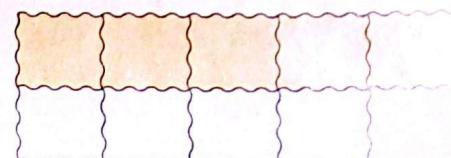
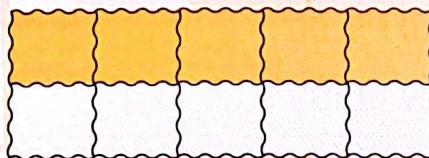
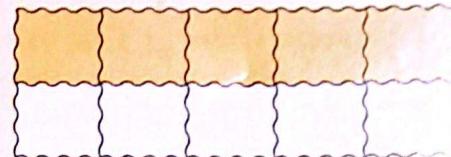
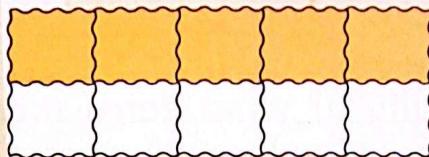
H	T	O	•	t	h
		0	0	1	

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	\bullet	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