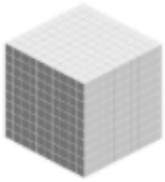
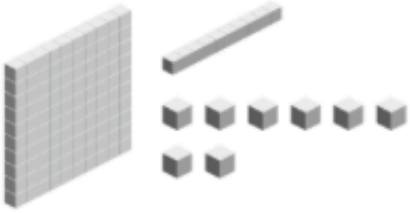
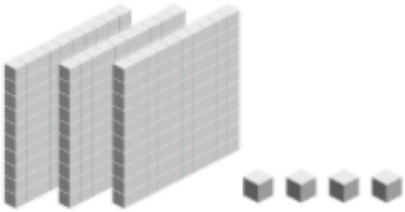
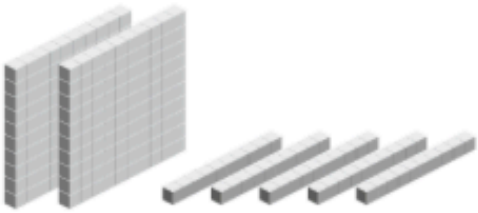
Worksheet 3

Reading and Writing Decimals

1  stands for 1.

What number does each of the following show?

	$\frac{118}{1000}$	0.118 118 thousandths
	$\frac{304}{1000}$	0.304 304 thousandths
	$\frac{250}{1000}$	0.025 250 thousandths

2 Use the digits 7, 8 and 9 to make different numbers.

List all the possible numbers.

0.789, 0.798, 0.879, 0.897, 0.978, 0.987

3 Use the digits 0, 3 and 6 to make different numbers.

(a) List all the possible numbers.

0.036, 0.063, 0.306, 0.360, 0.630, 0.603

(b) Choose one of the above numbers and write it in words.

Answer may vary

CHALLENGE

Three children are representing the number 0.504

Annie: $0.504 = \frac{504}{1000}$

Alex: $0.504 = \frac{3}{10} + \frac{2}{10} + \frac{4}{1000}$

Teddy: $0.504 = \frac{5}{10} + \frac{4}{1000}$

Who is correct?
Explain why.

Dexter is measuring a box of chocolates with a ruler that measures in centimetres and millimetres.

He measures it to the nearest cm and writes the answer 28 cm.
What is the smallest length the box of chocolates could be?

Answers below:

Three children are representing the number 0.504

$0.504 = \frac{504}{1000}$

Annie

$0.504 = \frac{3}{10} + \frac{2}{10} + \frac{4}{1000}$

Alex

$0.504 = \frac{5}{10} + \frac{4}{1000}$

Teddy

Who is correct?
Explain why.

Possible answer:

They are all correct. Annie has recorded it as a fraction. Alex and Teddy have partitioned it differently.

Dexter is measuring a box of chocolates with a ruler that measures in centimetres and millimetres.

He measures it to the nearest cm and writes the answer 28 cm.
What is the smallest length the box of chocolates could be?

Smallest: 27.5 cm