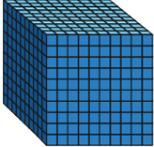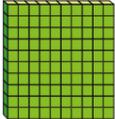# Understand thousandths

1 Tommy is using base 10 to represent decimals.
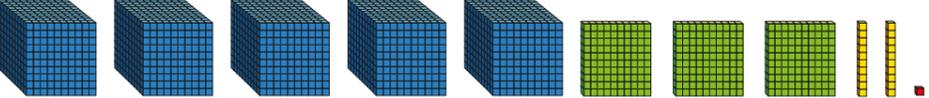
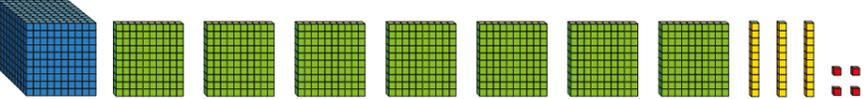He uses [image] to represent 1 whole.

He uses [image] to represent $\frac{1}{10}$ or 0.1
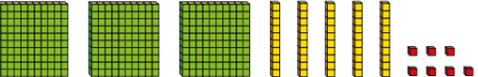
He uses [image] to represent $\frac{1}{100}$ or 0.01

He uses [image] to represent $\frac{1}{1000}$ or 0.01

What decimals are represented?

a) [image]

b) [image]

c) [image]

2 **a)** Represent each number using base 10

0.512   1.352   2.003

b) Use your representations to help you complete the statements.
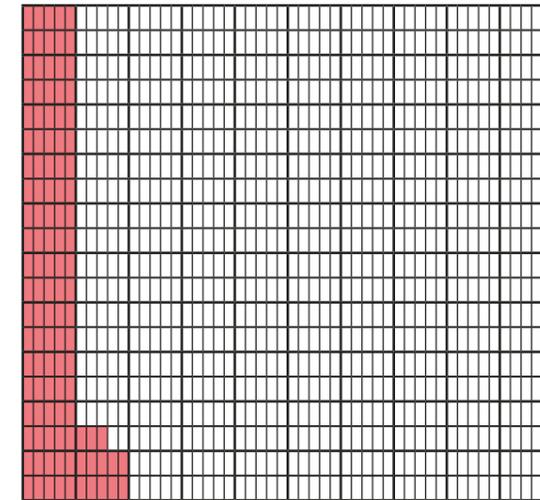
0.512 = 0.5 + 0.01 + ☐

1.352 = 1 + ☐ + ☐ + ☐

2.003 = _____

3 Here is a thousand square.

Part of the square has been coloured.

[image]

a) Why do you think it is called a thousand square?

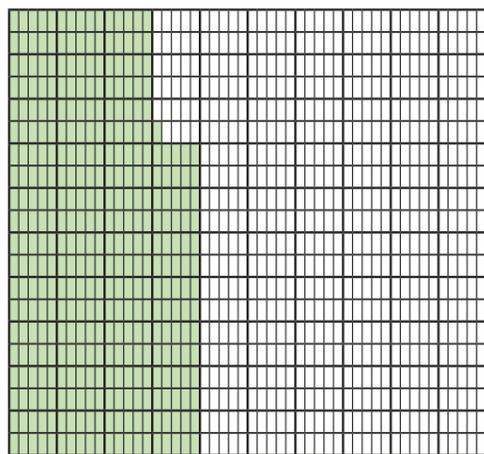_____

b) What fraction of the square has been coloured? $\frac{☐}{1000}$

c) Write the fraction as a decimal.   ☐

4 What fraction of each square has been shaded?
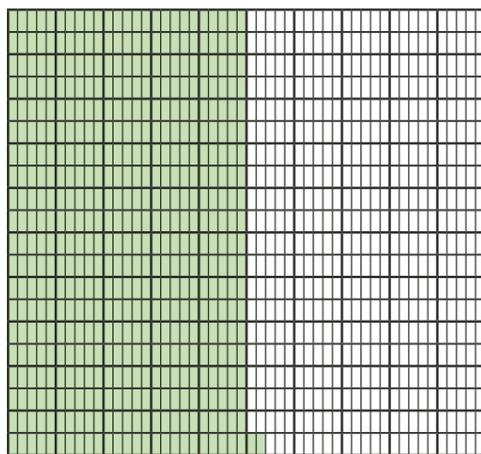
Write each number as a fraction and as a decimal.
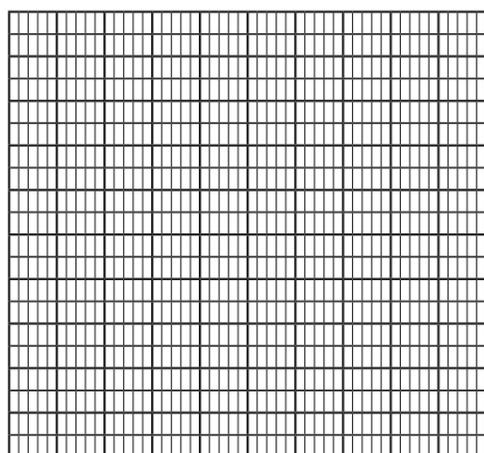
a)

fraction = ☐

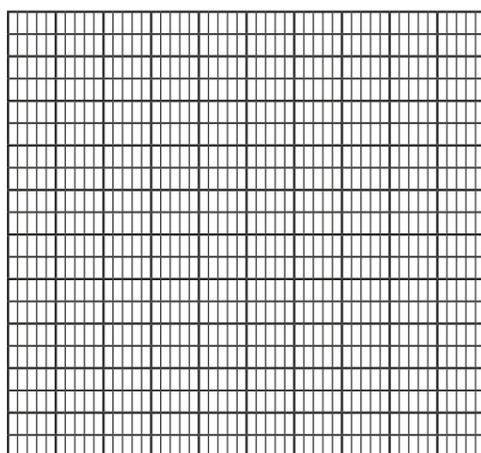decimal = ☐

b)

fraction = ☐

decimal = ☐

5 Colour the grids to represent the fraction and decimal.

a) $\dfrac{73}{1000}$

b) 0.302

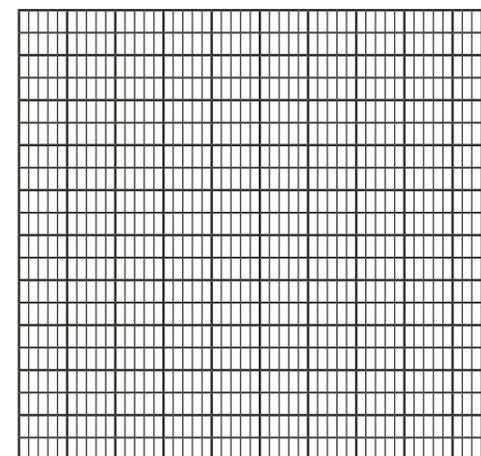**6** Represent these numbers on a place value chart.

a) 1.372   **b)** 0.091   **c)** 3.542

7 Show that $\dfrac{400}{1000}$ is the same as 0.4

8 Write the numbers represented by the place value charts.

a)

Ones	Tenths	Hundredths	Thousandths
1 1 1 1	0.1 0.1	0.01 0.01 0.01 0.01 0.01 0.01 0.01	0.001 0.001 0.001 0.001 0.001 0.001

☐

b)

Ones	Tenths	Hundredths	Thousandths
	0.1 0.1 0.1 0.1 0.1		0.001 0.001 0.001 0.001

☐