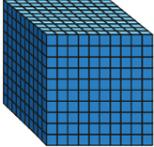
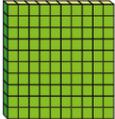


# Understand thousandths



1 Tommy is using base 10 to represent decimals.

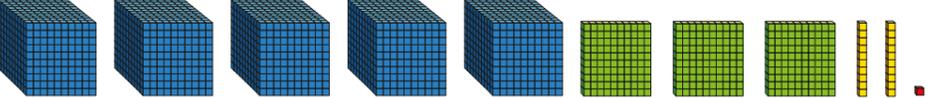
He uses  to represent 1 whole.

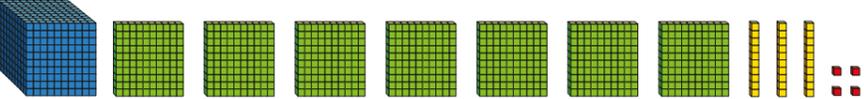
He uses  to represent  $\frac{1}{10}$  or 0.1

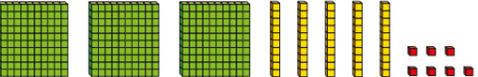
He uses  to represent  $\frac{1}{100}$  or 0.01

He uses  to represent  $\frac{1}{1000}$  or 0.001

What decimals are represented?

a)  5.321

b)  1.734

c)  0.357

2 a) Represent each number using base 10  
0.512                      1.352                      2.003

b) Use your representations to help you complete the statements.

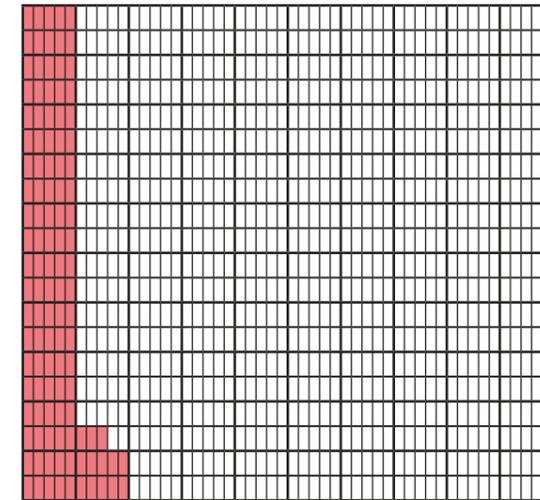
$$0.512 = 0.5 + 0.01 + \boxed{0.002}$$

$$1.352 = 1 + \boxed{0.3} + \boxed{0.05} + \boxed{0.002}$$

$$2.003 = \underline{2 + 0.003}$$

3 Here is a thousand square.

Part of the square has been coloured.



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

It's split into a thousand parts.

b) What fraction of the square has been coloured?

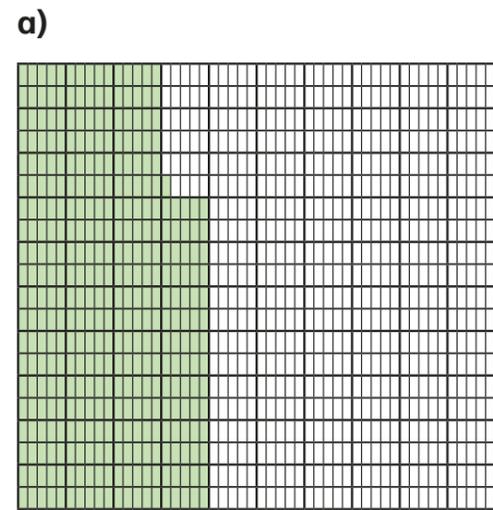
$$\frac{113}{1000}$$

c) Write the fraction as a decimal.

$$\boxed{0.113}$$

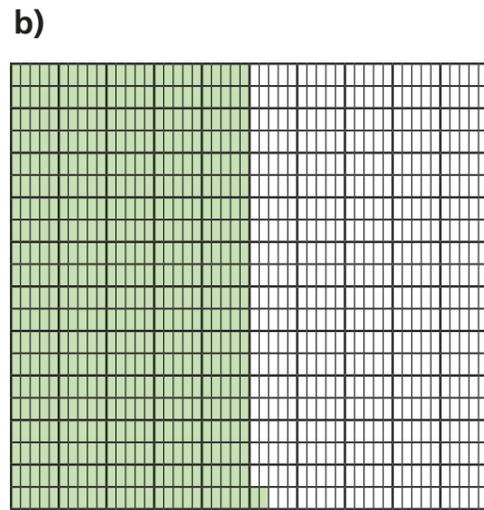
4 What fraction of each square has been shaded?

Write each number as a fraction and as a decimal.



fraction =  $\frac{371}{1000}$

decimal = 0.371

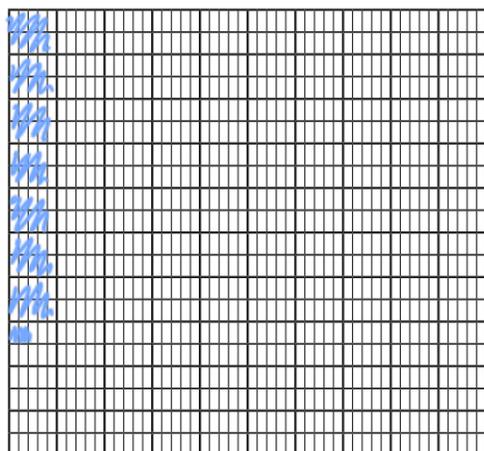


fraction =  $\frac{502}{1000}$

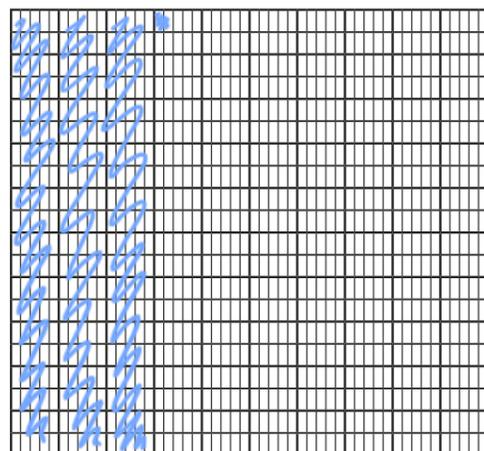
decimal = 0.502

5 Colour the grids to represent the fraction and decimal.

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



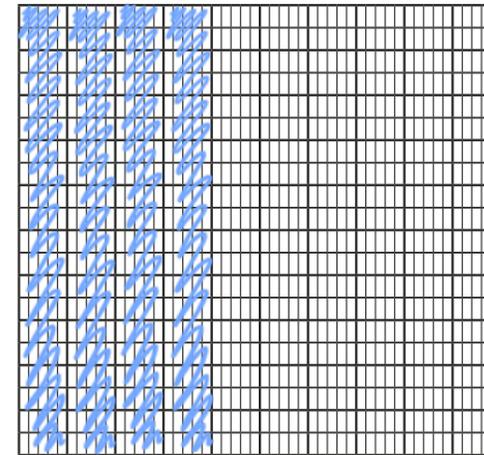
b) 0.302



6 Represent these numbers on a place value chart.

- a) 1.372      b) 0.091      c) 3.542

7 Show that  $\frac{400}{1000}$  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

4.276

b)

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

0.504

