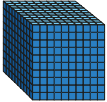


Understand thousandths

1 Tommy is using base 10 to represent decimals.

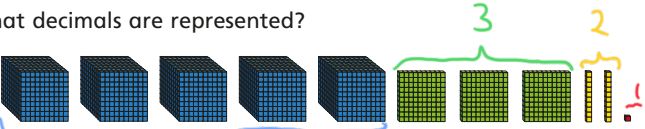
He uses  to represent 1 whole.

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

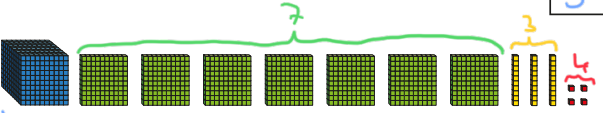
He uses  to represent $\frac{1}{100}$ or 0.01

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

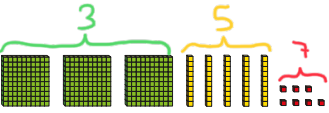
What decimals are represented?

a)  5 3 2 !

5.321

b)  7 3 4

1.734

c)  3 5 7

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.

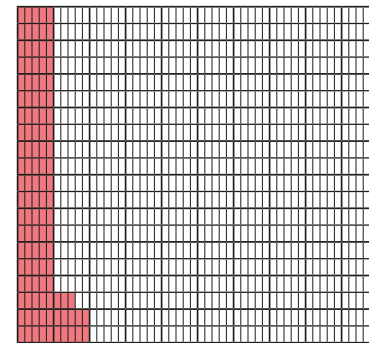
$0.512 = 0.5 + 0.01 +$ 0.002

$1.352 = 1 +$ 0.3 $+$ 0.05 $+$ 0.002

$2.003 =$ 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 is split into one thousand equal parts.

b) What fraction of the square has been coloured?

$\frac{113}{1000}$

c) Write the fraction as a decimal.

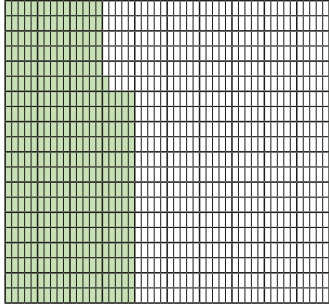
0.113



4 What fraction of each square has been shaded?

Write each number as a fraction and as a decimal.

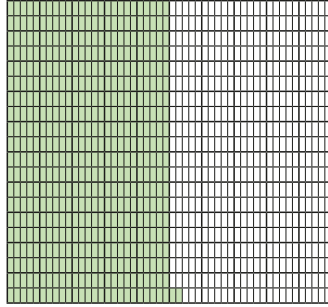
a)



fraction = $\frac{37}{1000}$

decimal = 0.371

b)

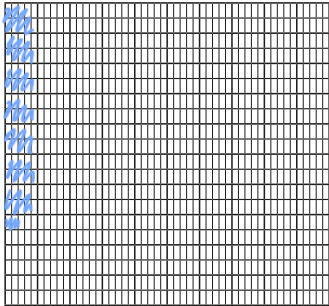


fraction = $\frac{502}{1000}$

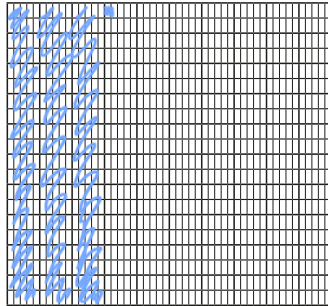
decimal = 0.502

5 Colour the grids to represent the fraction and decimal.

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



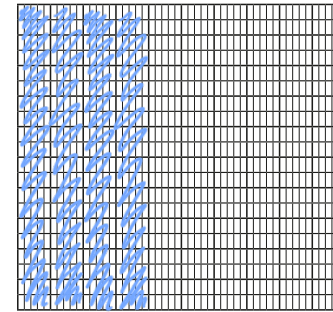
b) 0.302



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



400 out of 1,000
equal parts = $\frac{400}{1000}$

4 out of 10 equal
columns = $\frac{4}{10} = 0.4$

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

