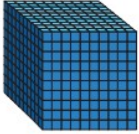




1 Tommy is using base 10 to represent decimals.

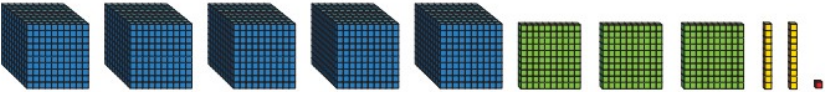
He uses  to represent 1 whole.

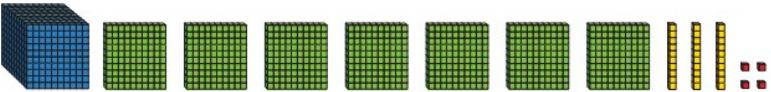
He uses  to represent  $\frac{1}{10}$  or 0.1

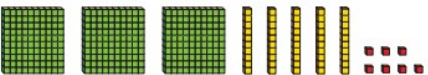
He uses  to represent  $\frac{1}{100}$  or 0.01

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

What decimals are represented?

a) 

b) 

c) 

2 a) Represent each number using base 10

0.512                      1.352                      2.003

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

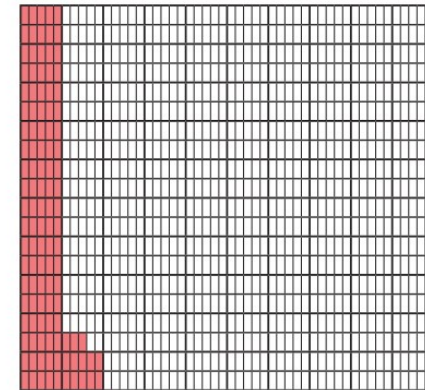
$0.512 = 0.5 + 0.01 +$

$1.352 = 1 +$    $+$    $+$

$2.003 =$  \_\_\_\_\_

3 Here is a thousand square.

Part of the square has been coloured.



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

\_\_\_\_\_

b) What fraction of the square has been coloured?

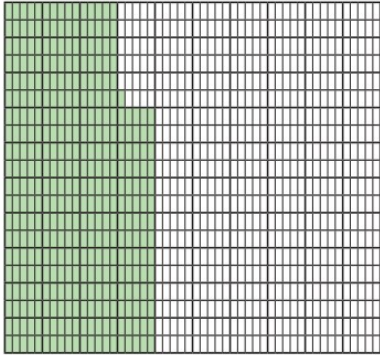
$\frac{\text{input}}{1000}$

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.

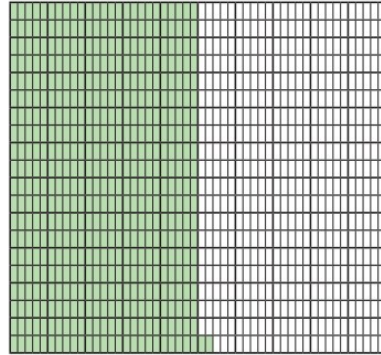
a)



fraction =

decimal =

b)

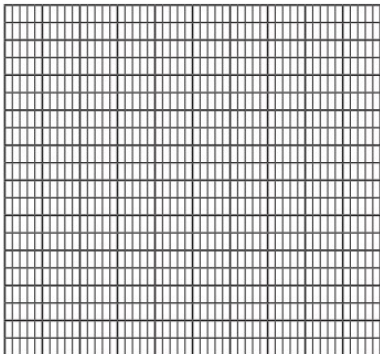


fraction =

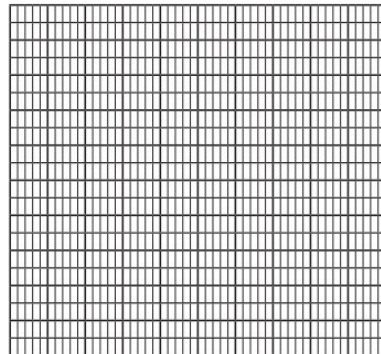
decimal =

5 Colour the grids to represent the fraction and decimal.

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



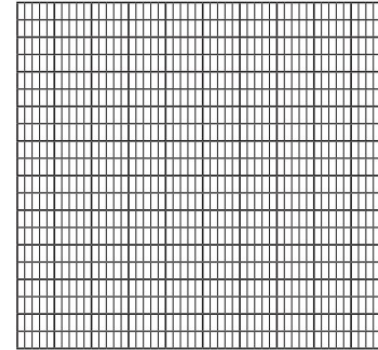
b) 0.302



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
<div style="display: flex; justify-content: space-around;"> <span>1</span> <span>1</span> <span>1</span> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <span>1</span> </div>	<div style="display: flex; justify-content: space-around;"> <span>0.1</span> <span>0.1</span> </div>	<div style="display: flex; justify-content: space-around;"> <span>0.01</span> <span>0.01</span> <span>0.01</span> <span>0.01</span> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <span>0.01</span> <span>0.01</span> <span>0.01</span> </div>	<div style="display: flex; justify-content: space-around;"> <span>0.001</span> <span>0.001</span> <span>0.001</span> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <span>0.001</span> <span>0.001</span> <span>0.001</span> </div>

b)

Ones	Tenths	Hundredths	Thousandths
	<div style="display: flex; justify-content: space-around;"> <span>0.1</span> <span>0.1</span> <span>0.1</span> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <span>0.1</span> <span>0.1</span> </div>		<div style="display: flex; justify-content: space-around;"> <span>0.001</span> <span>0.001</span> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <span>0.001</span> <span>0.001</span> </div>