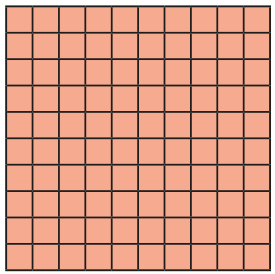
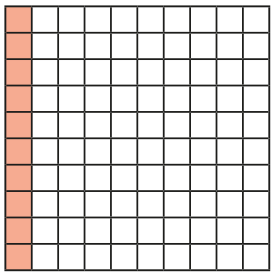
Decimals as fractions (2)

1 This grid represents 1



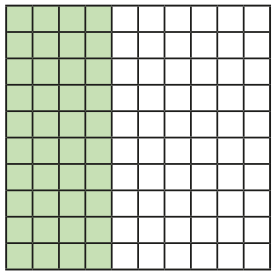
This grid represents 0.1 or $\frac{10}{100}$ or $\frac{1}{10}$



Colour hundred squares to represent the fractions.

a) $\frac{2}{100}$ **b)** $\frac{2}{10}$ **c)** $\frac{20}{100}$ **d)** $\frac{90}{100}$

2 Complete the numbers to show how much of the square is shaded.



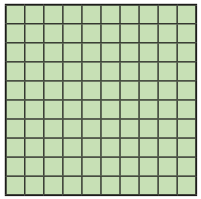
$\frac{\square}{100}$

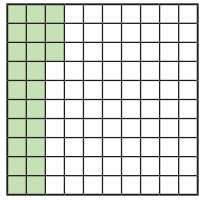
$\frac{\square}{10}$

0._

3 What fractions and decimals are represented?

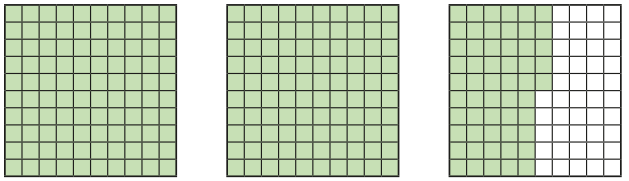
a)





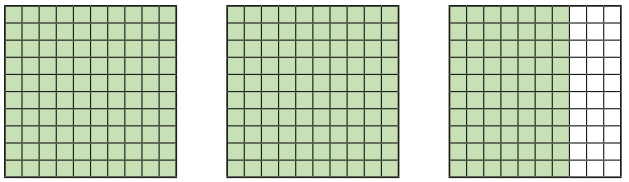
$1\frac{23}{100} = \square$

b)



$\square \frac{\square}{100} = \square$

c)



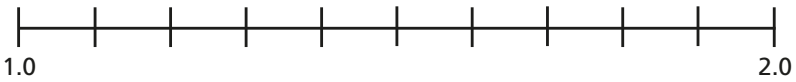
$\square \frac{\square}{10} = \square$

4 Use hundred squares.

a) Represent 2.15 **b)** Represent $3\frac{7}{10}$

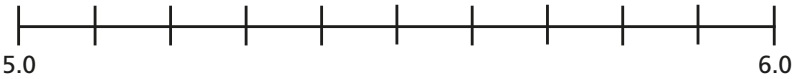
5 **a)** Label the number line with the decimals.

1.3	1.6	1.85	1.98

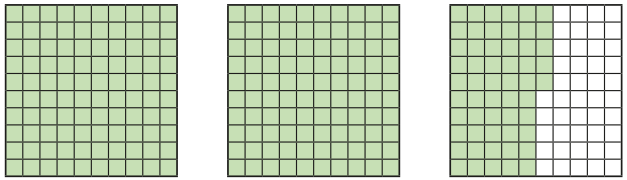


b) Label the number line with the fractions.

$5\frac{1}{10}$	$5\frac{1}{2}$	$5\frac{73}{100}$	$\frac{590}{100}$

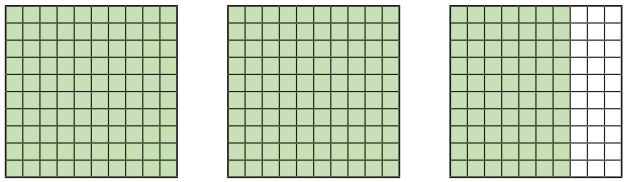


b)



$\square \quad \frac{\square}{100} = \square$

c)



$\square \quad \frac{\square}{10} = \square$

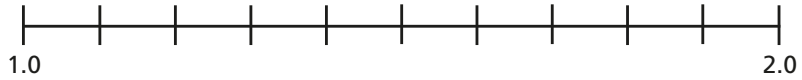
4 Use hundred squares.

a) Represent 2.15

b) Represent $3\frac{7}{10}$

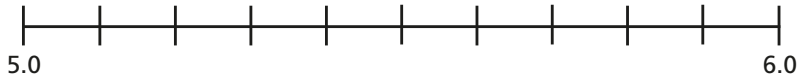
5 **a)** Label the number line with the decimals.

1.3 | 1.6 | 1.85 | 1.98



b) Label the number line with the fractions.

$5\frac{1}{10}$ | $5\frac{1}{2}$ | $5\frac{73}{100}$ | $\frac{590}{100}$



6 Complete the table.

Decimal	Decimal (expanded form)	Fraction	Fraction (expanded form)	In words
2.13	2 + 0.1 + 0.03	$2\frac{13}{100}$	$2 + \frac{1}{10} + \frac{3}{100}$	2 ones, 1 tenth and 3 hundredths
4.37		$4\frac{\square}{100}$		
	5 + 0.6 + 0.02			
				8 ones and 2 hundredths

7 Write the decimals as fractions.
Give your answer as a mixed number.

a) $32.6 = \square \frac{\square}{10}$

b) $2.03 = \square \frac{\square}{100}$

c) $13.08 = \square \frac{\square}{100}$

d) $3.98 = \square \frac{\square}{100}$

8 Use the digits 3, 4 and 5 to complete the decimal number.

$\square \quad \square . 0 \quad \square$

How many different numbers can you make?