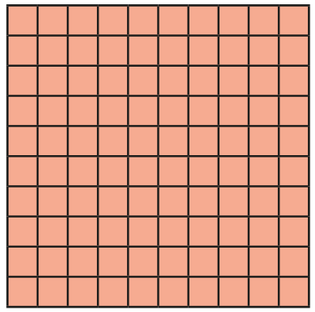
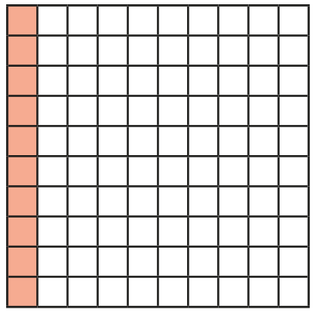
Decimals as fractions (2)

1 This grid represents 1

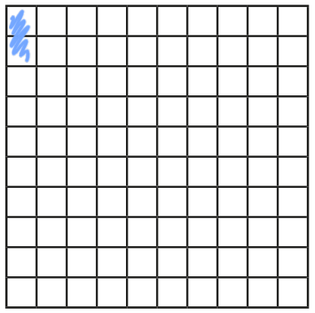


This grid represents 0.1 or $\frac{10}{100}$ or $\frac{1}{10}$

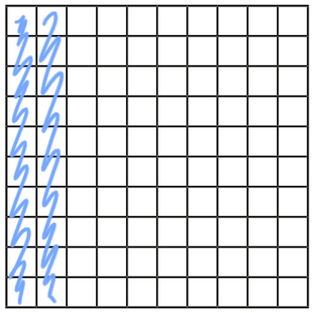


Colour the hundred squares to represent the fractions.

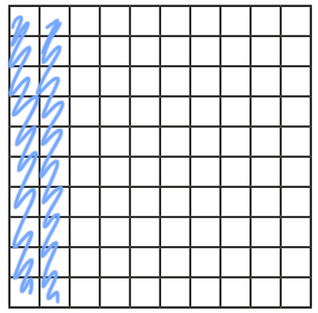
a) $\frac{2}{100}$



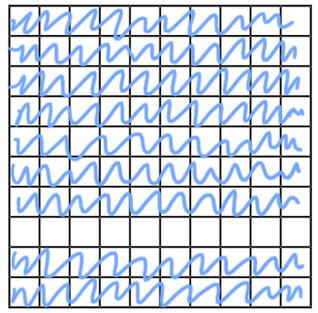
b) $\frac{2}{10}$



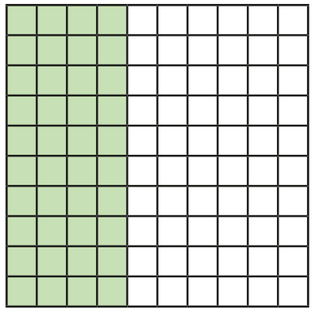
c) $\frac{20}{100}$



d) $\frac{90}{100}$



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



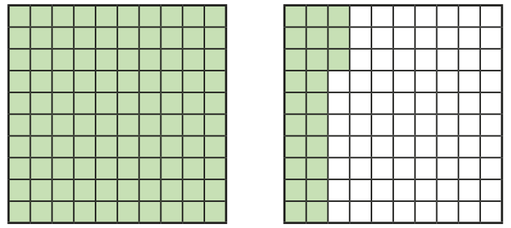
$\frac{40}{100}$

$\frac{4}{10}$

0.4

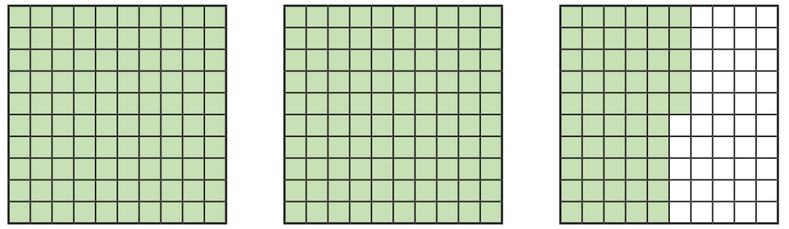
3 What fractions and decimals are represented?

a)



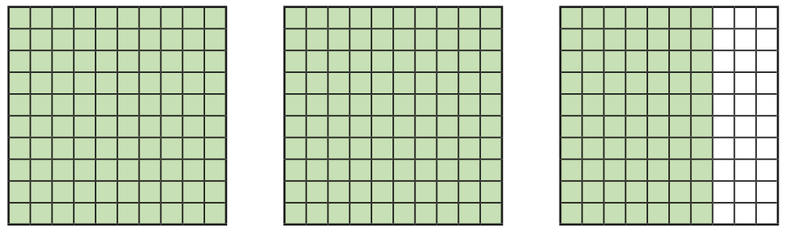
$1\frac{23}{100} = 1.23$

b)



$2\frac{55}{100} = 2.55$

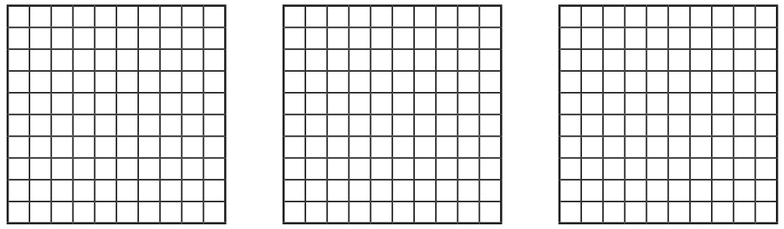
c)



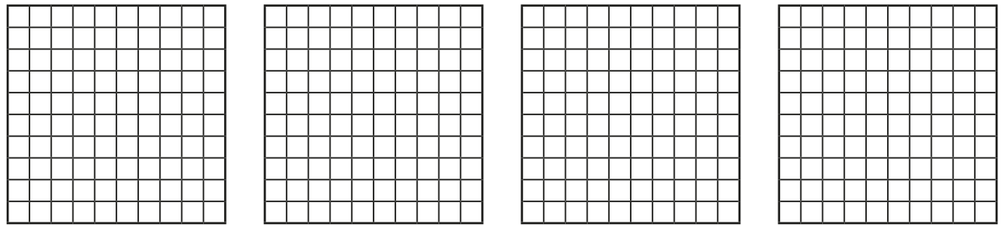
$2\frac{7}{10} = 2.7$

4

a) Represent 2.15

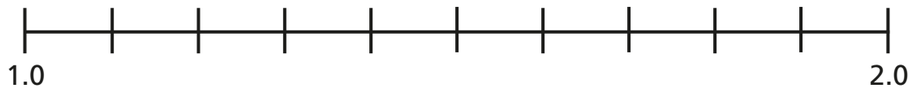


b) Represent $3\frac{7}{10}$



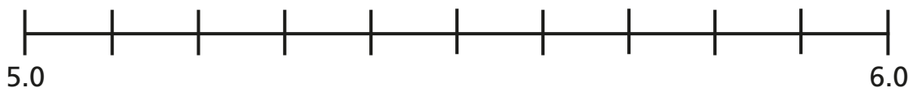
5 **a)** Label the number line with the decimals.

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.

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

How many different numbers can you make?