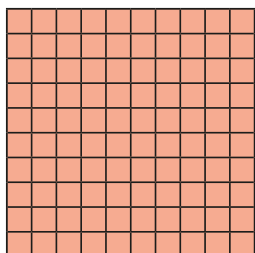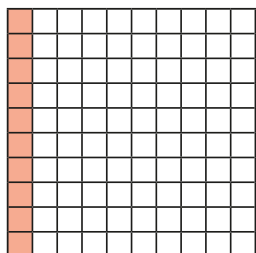# Decimals as fractions (2)

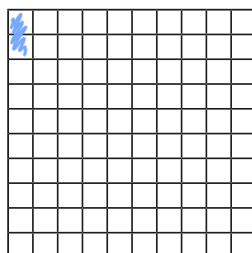**1** This grid represents 1

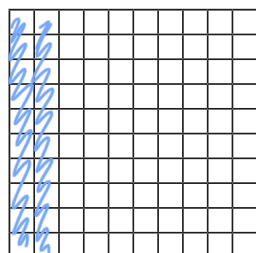This grid represents 0.1 or $\frac{10}{100}$ or $\frac{1}{10}$

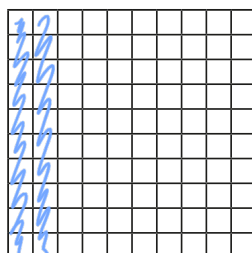Colour the hundred squares to represent the fractions.

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

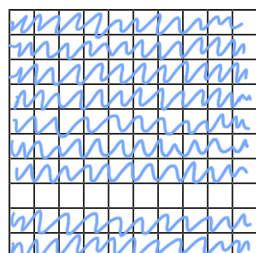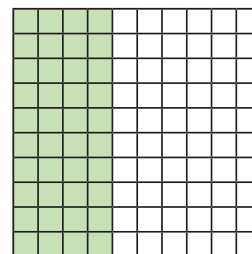b) $\frac{2}{10}$

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

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

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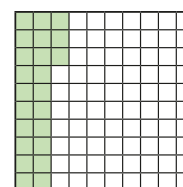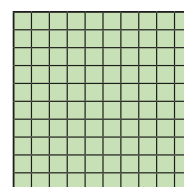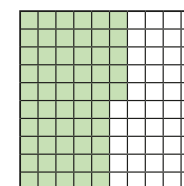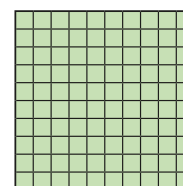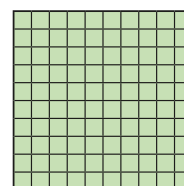

$\frac{40}{100}$

$\frac{4}{10}$

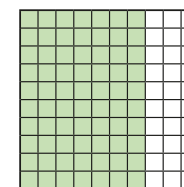0.4

3 What fractions and decimals are represented?

a)

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

b)

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

c)
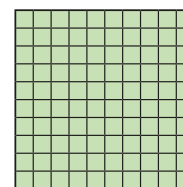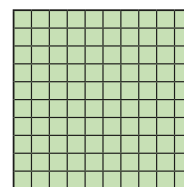
$2\frac{\boxed{7}}{10} = \boxed{2.7}$

4

a) Represent 2.15
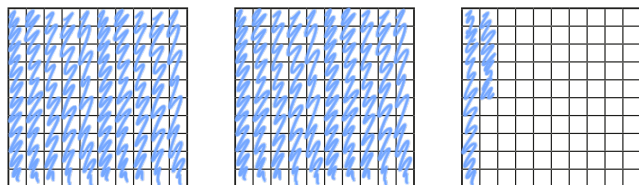
b) Represent $3\frac{7}{10}$
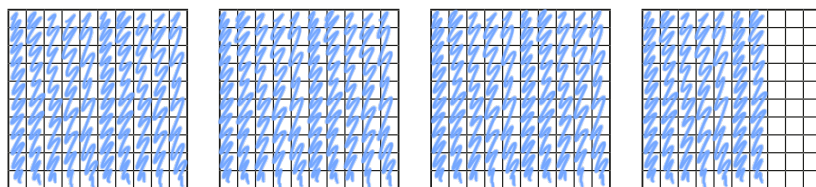
5 **a)** Label the number line with the decimals.

| 1.3 | 1.6 | 1.85 | 1.98 |

1·3   1·6   1·85   1·98

1.0 ←————————————————————→ 2.0
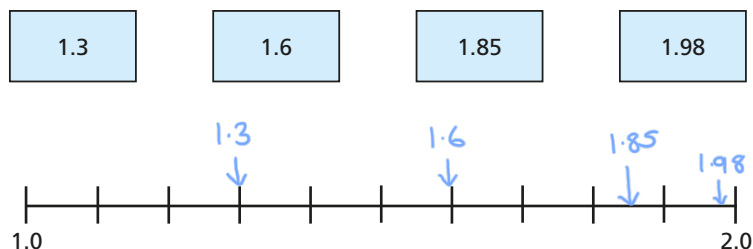
b) Label the number line with the fractions.

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

$5\frac{1}{10}$ $5\frac{1}{2}$ $5\frac{73}{100}$ $\frac{590}{100}$
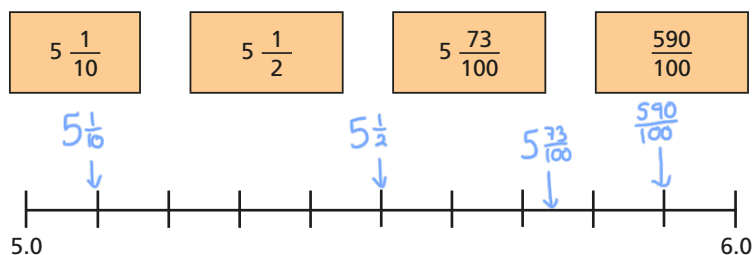
5.0 ←————————————————————→ 6.0

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	$4 + 0.3 + 0.07$	$4\frac{37}{100}$	$4 + \frac{3}{10} + \frac{7}{100}$	4 ones, 3 tenths and 7 hundredths
5.62	$5 + 0.6 + 0.02$	$5\frac{62}{100}$	$5 + \frac{6}{10} + \frac{2}{100}$	5 ones, 6 tenths and 2 hundredths
8.02	$8 + 0.02$	$8\frac{2}{100}$	$8 + \frac{2}{100}$	8 ones and 2 hundredths

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

a) $32.6 = 32\frac{6}{10}$

c) $13.08 = 13\frac{8}{100}$

b) $2.03 = 2\frac{3}{100}$

d) $3.98 = 3\frac{98}{100}$

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

e.g. | 3 | 4 | . | 0 | 5 |

How many different numbers can you make?

White Rose Maths