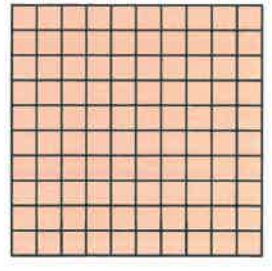


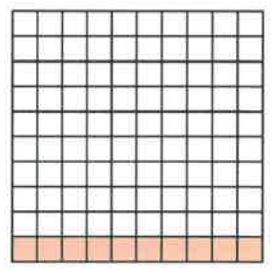
Decimals as fractions (2)

1 This grid represents 1



This grid represents 0.1 or

$$\frac{10}{100} \text{ or } \frac{1}{10}$$

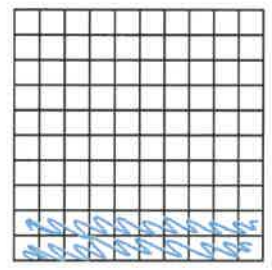


Colour the hundred squares to represent the fractions.

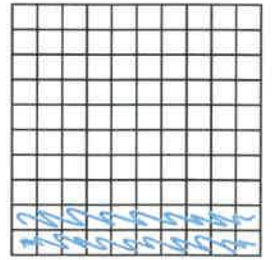
a) $\frac{2}{100}$



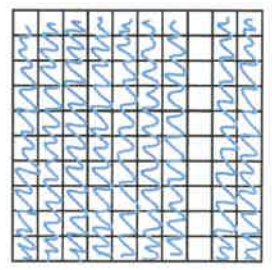
c) $\frac{20}{100}$



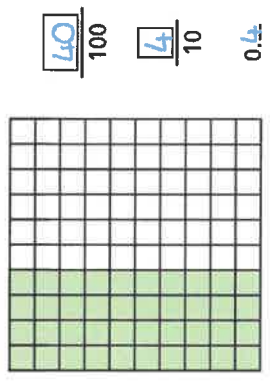
b) $\frac{2}{10}$



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

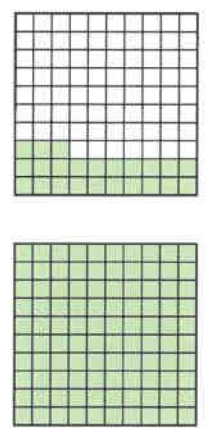


2 Complete the numbers to show how much of the square is shaded.



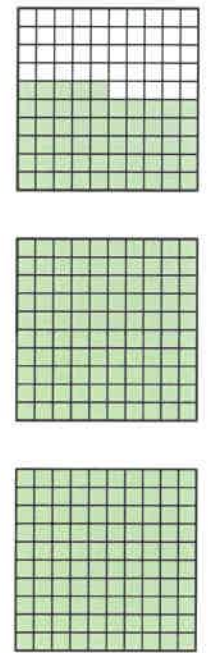
3 What fractions and decimals are represented?

a)



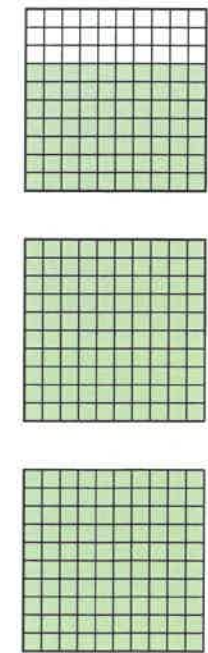
$$1 \frac{23}{100} = 1.23$$

b)



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

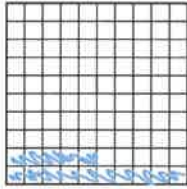
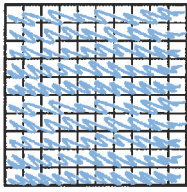
c)



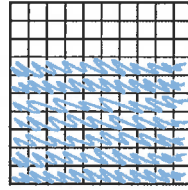
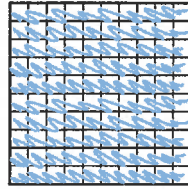
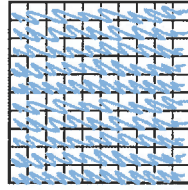
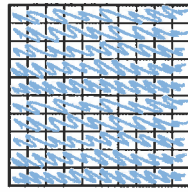
$$2 \frac{7}{10} = 2.7$$

4

a) Represent 2.15

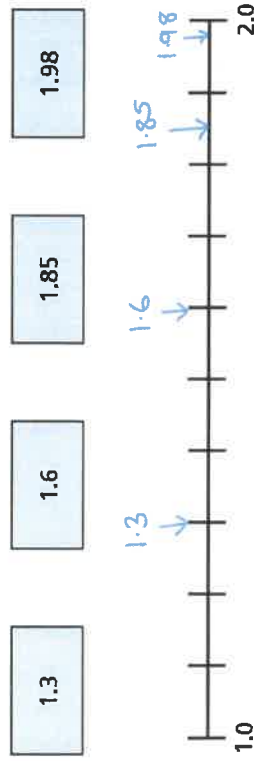


b) Represent $3\frac{7}{10}$

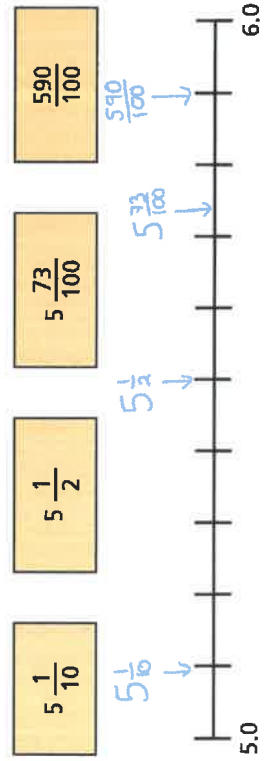


5

a) Label the number line with the decimals.



b) Label the number line with the fractions.



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. $3\boxed{3}\boxed{4}.\boxed{5}$

How many different numbers can you make?

