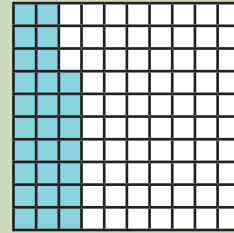# Decimals as fractions

Read and write decimal numbers as fractions
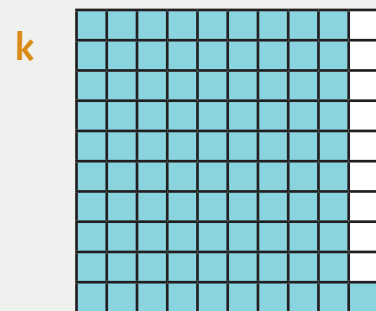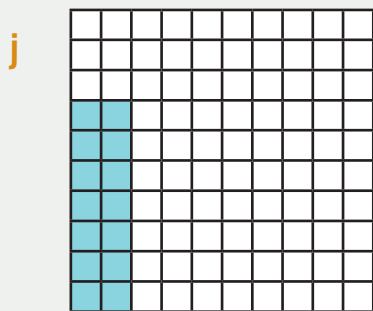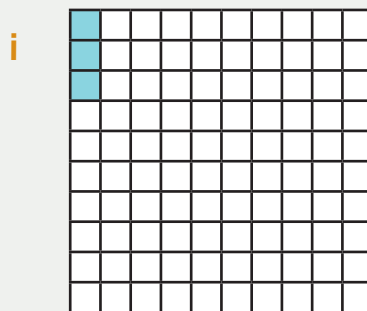
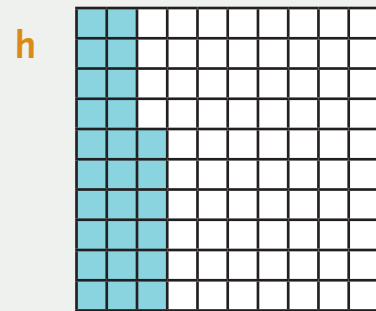**Challenge 1**   Look at each grid. Write the decimal number and the fraction of the shaded area.

Example

$$0{\cdot}27 = \frac{27}{100}$$

a

b

c

d

e

f

g

h

i

j

k
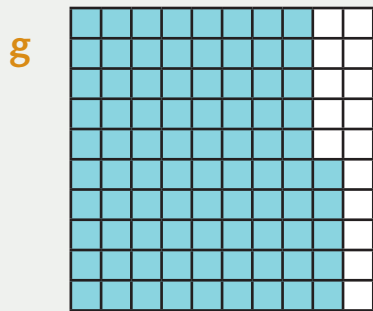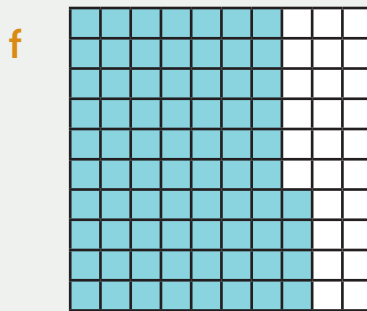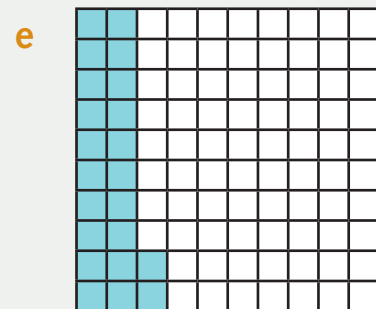
1 Write each of these decimal numbers as a fraction.

a 0·6 **b** 0·52 **c** 0·11 **d** 0·9 **e** 0·83

f 0·04 **g** 0·27 **h** 0·1 **i** 0·01 **j** 0·99

2 Write each of these decimal numbers as a mixed number.
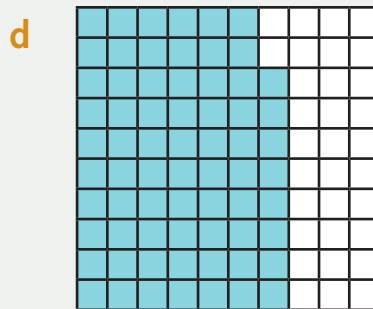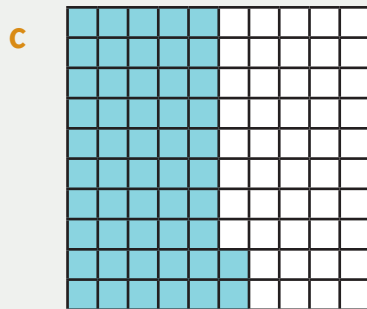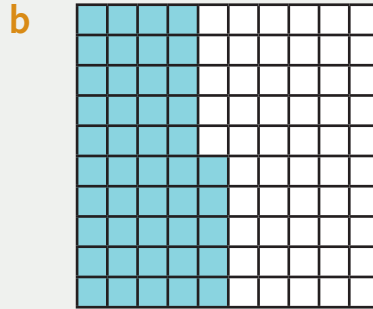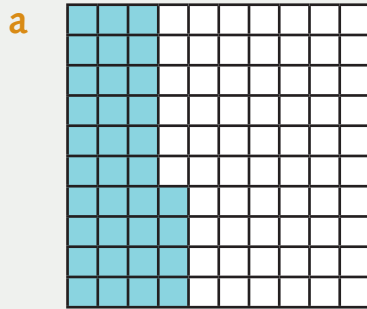
Example

$6·35 = 6\frac{35}{100}$

a 4·1 **b** 3·98 **c** 6·26 **d** 6·9 **e** 7·41

f 8·06 **g** 9·18 **h** 12·6 **i** 13·36 **j** 17·93

3 How are fractions and decimal numbers related?

1 Write each of these decimal numbers as a mixed number and then as an improper fraction.

Example

$3·72 = 3\frac{72}{100} = \frac{372}{100}$

a 6·46 **b** 7·38 **c** 5·7 **d** 9·12 **e** 4·08

f 6·37 **g** 3·5 **h** 6·62 **i** 8·40 **j** 9·90

2 Are the decimal numbers in Questions **1 i** and **1 j** tenths or hundredths? Explain why.