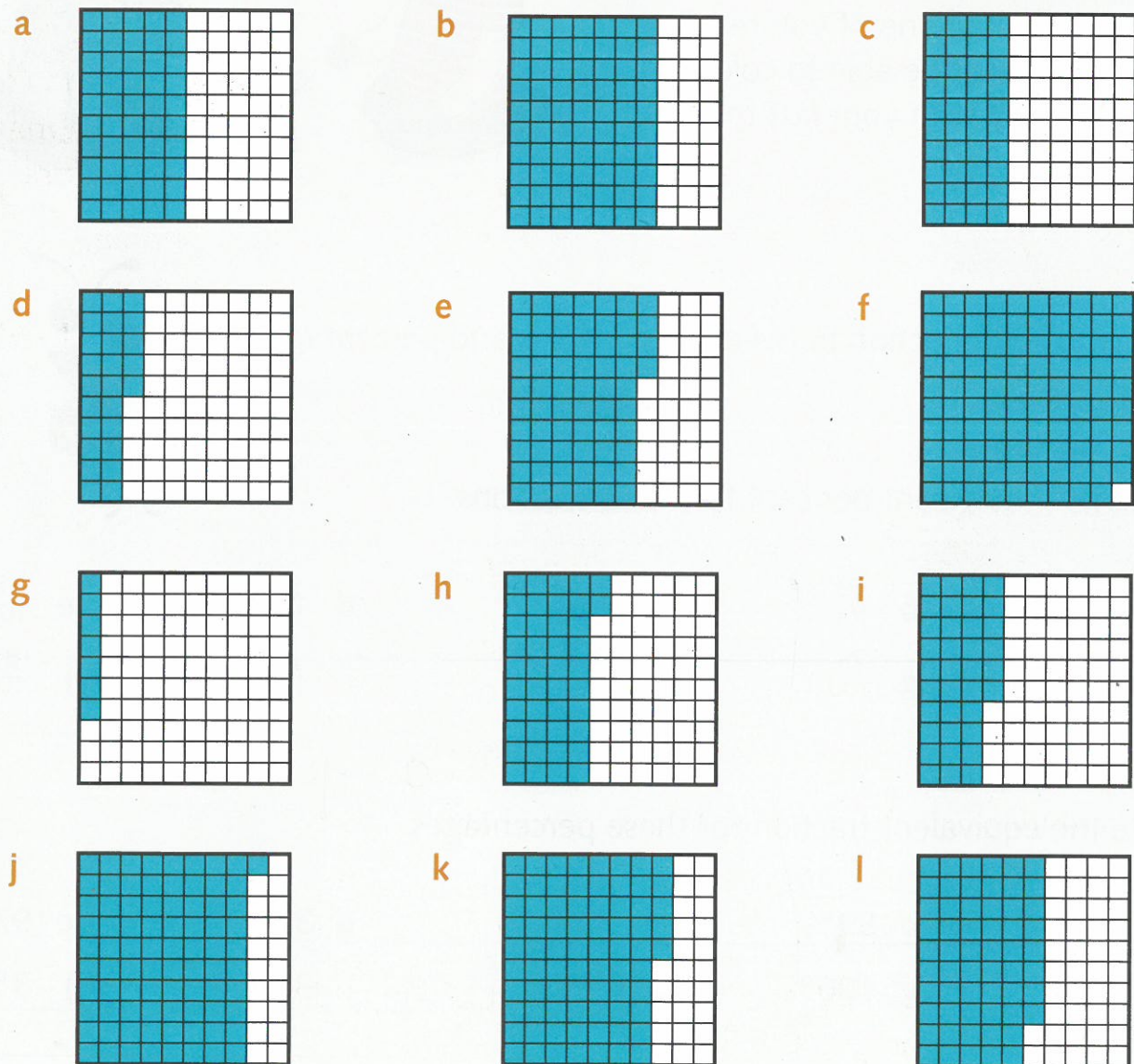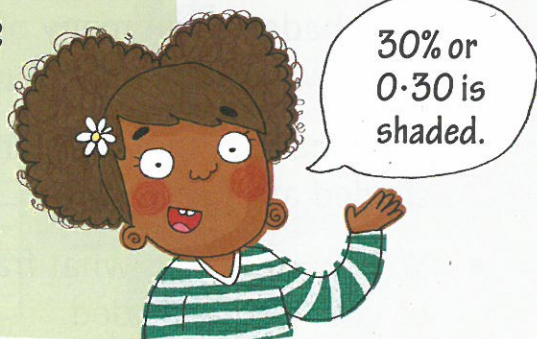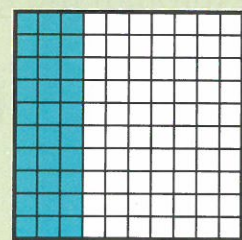# Percentages and decimal hundredths

- Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per 100'
- Write percentages as a decimal to 2 places

Challenge 1

Look at each grid. What per cent and what decimal are shaded blue?

Example

30% or 0·30 is shaded.

a

b

c

d

e

f

g

h

i

j

k

l

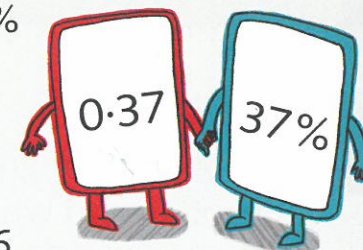**Challenge 2**

1 Write the equivalent decimal for these percentages.

a 28%   b 74%   c 15%   d 93%

e 6%   f 52%   g 100%   h 39%

2 Write the equivalent per cent for these decimals.

0·37   37%

a 0·72   b 0·81   c 0·17   d 0·96

e 0·55   f 0·39   g 0·04   h 0·22

3 Explain the connection between percentages and decimals to 2 places.

Challenge 3

Play this game with a partner. Use Resource 41: One hundred per cent.

- On the same resource sheet, one player starts from the top of the grid and the other player starts from the bottom of the grid.

- Take turns to roll the dice.

- See what per cent of the grid you can colour in by looking at the table below:

You will need:
- Resource 41: One hundred per cent
- Two different coloured pencils (one for each player)
- 1–6 dice

Number rolled	1	2	3	4	5	6
Per cent	8%	9%	11%	15%	1%	5%

- After each roll, colour your squares, starting either at the top or at the bottom. Each use a different coloured pencil.

- Say what per cent you have coloured so far after each go.

- Your partner says what decimal fraction you have shaded so far.

- Keep going until the grid is full. If you cannot colour in the per cent you roll, you miss a turn.

The winner is the player with the highest per cent of the grid coloured in their colour when the grid is full.