Understand percentages

1   Complete the sentence for each diagram.

a)

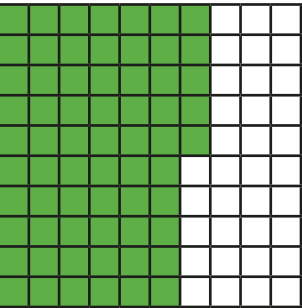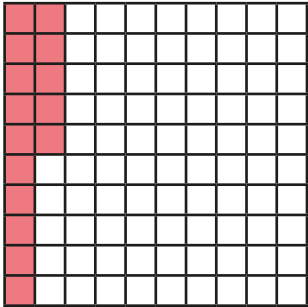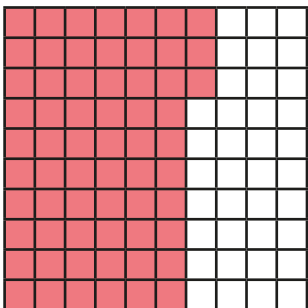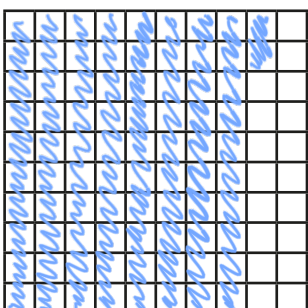There are ⟨9⟩ parts out of a hundred shaded.

This is ⟨9⟩ %.

b)

There are ⟨24⟩ parts out of a hundred shaded.

This is ⟨24⟩ %.

c)

There are ⟨65⟩ parts out of a hundred shaded.

This is ⟨65⟩ %.

2   Complete the table.

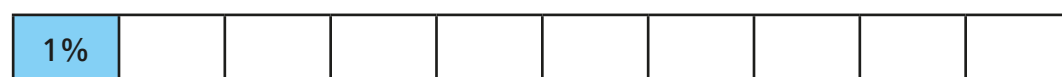| Hundred square	Percentage
	⟨15%⟩
	⟨63%⟩
	82%

3   Shade 15% of the hundred square red.

Shade 32% of the hundred square blue.
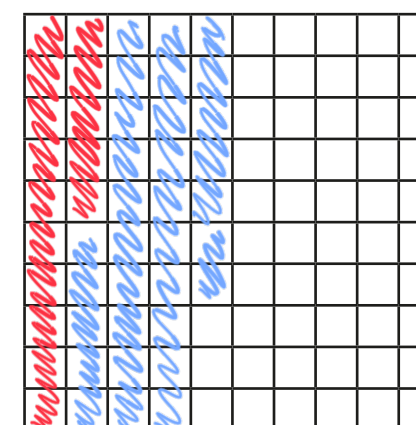
What percentage of the hundred square is **not** shaded? ⟨53⟩ %

4 **a)** Is 1% of this bar model shaded? __No__

1%									

Explain your reasoning.

It's split into 10 parts so each part is 10%

b) What percentage of each bar model is shaded?

30 %

70 %

5 Passengers are boarding a plane.

The plane has 100 seats.

a) 10% of the seats are already full.

How many passengers are already on the plane? 10

b) 15% of the seats have not been booked.
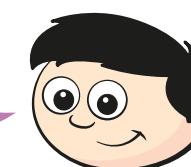
How many seats have been booked? 85

c) How many passengers still need to board the plane? 75

6 Dexter has £1 to spend.

He buys some stickers.

I got 35p change.

What percentage of his money did Dexter spend?

£1 − 35p = 65p ← spent

65 %

$\frac{65p}{100p}$

7 Aisha and Brett have been selling tickets for the school play.

There are 100 seats available.

- On Monday they sold 34% of the tickets. (34)
- On Tuesday they sold 42 tickets.
- By the end of Wednesday, 95% of the tickets had been sold. (95)

How many tickets did they sell on Wednesday?

34 + 42 = 76
95 − 76 = 19

On Wednesday they sold 19 tickets.

8 Shade 85% of this bar model.

Compare answers with a partner.