1 Complete the sentence for each diagram.

a)

This is [9] %.

There are [9] parts out of a hundred shaded.

b)

This is [24] %.

There are [24] parts out of a hundred shaded.

c)

There are [55] parts out of a hundred shaded.
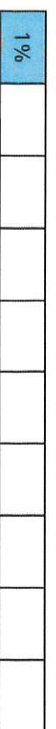
This is [55] %.

2 Complete the table.

Hundred square	Percentage
	$\frac{15}{100} = 15\%$
	$\frac{53}{100} = 53\%$
	82%

3 Shade 15% of the hundred square red.

Shade 32% of the hundred square blue.

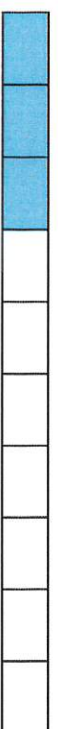What percentage of the hundred square is **not** shaded? [53] %

4

a) Is 1% of this bar model shaded? ___

 1%

Explain your reasoning.

No. $\frac{1}{10}$ is shaded.

$\frac{1}{10} = \frac{10}{100} = 10\%$ not 1%.

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?

$10\% = \frac{10}{100}$ [10]

b) 15% of the seats have not been booked.

How many seats have not been booked?

$15\% = \frac{15}{100} \Rightarrow$ [15]

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

$100 - (10 + 15) = 100 - 25 = 75$ [75]

6 Dexter has £1 to spend.

He buys some stickers.

"I got 35p change."

What percentage of his money did Dexter spend?

£1 = 100p $100p - 35p \rightarrow$ 65p

spent $\frac{65}{100} = 65\%$ [65] %

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

How many tickets did they sell on Wednesday?

$34 + 42 = 76$ sold on Monday + Tuesday.

$34\% = 34$ seats

95% of 100 = 95 $95 - 76 = 19$

On Wednesday they sold [19] tickets.

8 Shade 85% of this bar model.

Compare answers with a partner.