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 84 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.

<table>
<thead>
<tr>
<th>Hundred square</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Hundred square 15%" /></td>
<td>15%</td>
</tr>
<tr>
<td><img src="image2.png" alt="Hundred square 63%" /></td>
<td>63%</td>
</tr>
<tr>
<td><img src="image3.png" alt="Hundred square 82%" /></td>
<td>82%</td>
</tr>
</tbody>
</table>

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.

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

b) What percentage of each bar model is shaded?

|   |   |   |   |   |   |   |   |   |   |

30 %

b) What percentage of each bar model is shaded?

|   |   |   |   |   |   |   |   |   |   |

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.

What percentage of his money did Dexter spend?

I got 35p change.

What percentage of his money did Dexter spend?

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?

On Wednesday they sold 19 tickets.

8 Shade 85% of this bar model.

Compare answers with a partner.