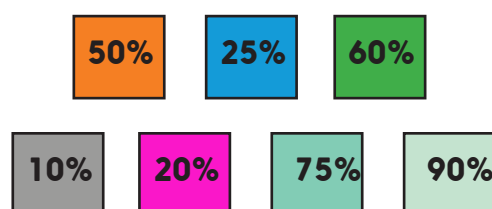# Investigation
Percentage explorers

You will need:
- squared paper

What to do:
- Draw seven 5 × 2 rectangles on squared paper.
  Each therefore has an area of 10 squares.

- Shade small squares in each grid to show the following percentages.

50%	25%	60%

10%	20%	75%	90%

- In each case how many squares are coloured in?

- Which of the percentages resulted in some of the small squares being halved?

- Predict how many squares would be coloured in for each percentage if the rectangle measured 5 by 4 squares.

- Now check your predictions, were any squares halved this time?

Challenge

Investigate another rectangle.
Can you predict whether any squares will need to be divided in order to show some of the percentages?

Investigation
Percentage explorers