

## Investigation

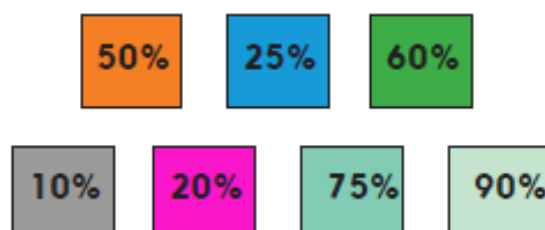
### Percentage explorers

#### You will need:

- squared paper

#### What to do:

- Draw seven  $5 \times 2$  rectangles on squared paper. Each therefore has an area of 10 squares.
- Shade small squares in each grid to show the following percentages.



- 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?