Can I express tenths and hundredths as percentages?

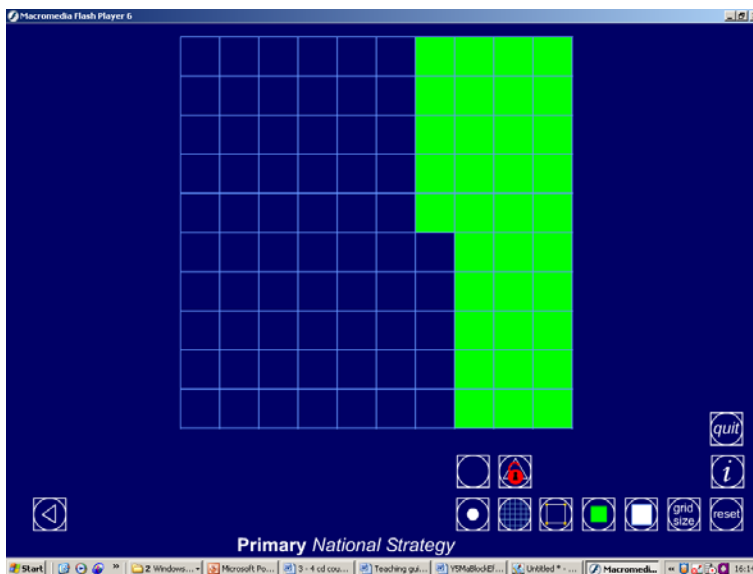## Teaching guidance

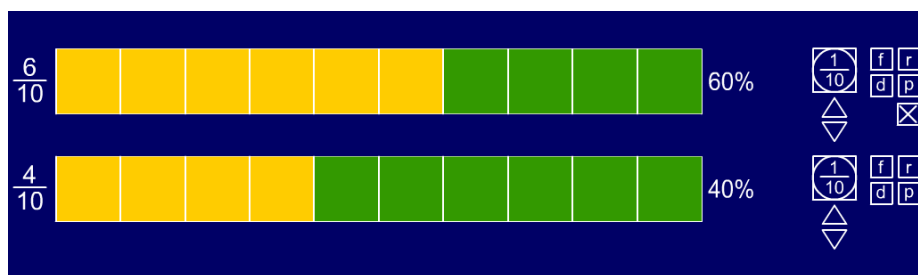### Key vocabulary
percentage, per cent, %, tenths, hundredths

Models and images

Represent a percentage, using practical resources such as money (£1, 10p and 1p coins) or images, for example, a 10 by 10 square grid or the *Area* ITP.

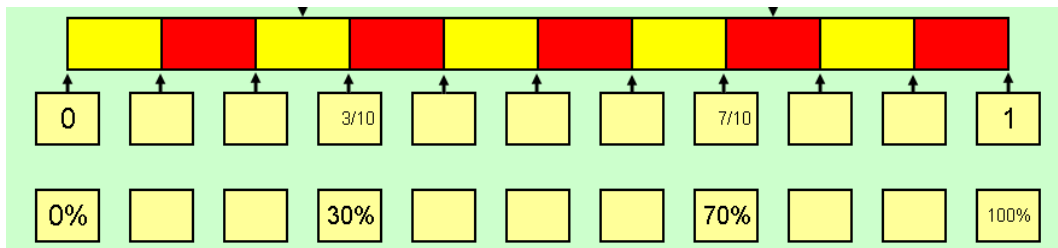*Area* ITP used to represent 35 shaded squares out of 100, or 35%

Explore visually the relationship between percentages and fractions.

Fractions ITP

Teaching tips

- Use ICT resources, such as the *Fractions* ITP, to explore, visualise and instantly record the link between fractions and percentages.

- Use money to show how 10p can be expressed as a percentage and a fraction of £1. Give children the opportunity to use coins to convince themselves that, for example, 10p is $^1/_{10}$ or 10% of £1 because they need ten 10p coins to make £1.

- Refer to percentage as being the number of parts per hundred. Reinforce that 100% represents 100 per 100 or a whole and that a percentage such as 76% can also be written as $^{76}/_{100}$.

- Regularly reinforce the relationship between fractions and percentages; for example, use a counting stick to establish equivalents.

| 0 | | | 3/10 | | | | 7/10 | | | 1 |
| 0% | | | 30% | | | | 70% | | | 100% |

- Help children recognise how they can use known equivalents to derive other equivalents, for example, if they know $^1/_{10}$ equals 10% then they can work out that $^6/_{10}$ equals 60%.