## Revising for Grade 4 in Mathematics

Session 3

## Quick Quiz

(1) Work out $834 \div 6$, without a calculator.
(2) Work out $11^{2}-7^{2}$, without a calculator.
(3) An accurate plan of a hall is drawn, using a scale of 1:200.

A ramp is 3 cm long on the plan. What is the real length of the ramp, in metres?
(4) Add a square so that this is a net of a cube.


## Review of Session 2

(1) Work out the areas of these shapes.
(a)


(c)

(2) The area of this parallelogram is $42 \mathrm{~cm}^{2}$. Work out the length of the base.


## The focus for today's session is...

Fractions and ratios

## Reminder

To simplify a fraction, divide the numerator and denominator by the same number:


You can simplify a ratio in the same way:

Simplify $8: 28$ by dividing both numbers by 4 :

$$
8: 28=\underline{2: 7}
$$

## Practice Questions

(1) Simplify each fraction as far as possible:
(a) $\frac{8}{18}$
(b) $\frac{15}{21}$
(c) $\frac{35}{100}$
(d) $\frac{30}{45}$
(2) Simplify each ratio as far as possible:
(a) $6: 14$
(b) $25: 35$
(c) $£ 1.20: 80 \mathrm{p}$
(d) $2.4 \mathrm{~m}: 66 \mathrm{~cm}$
(3) In Year 11 there are 80 girls and 64 boys. What is the ratio of girls : boys, in its simplest form?
(4) I go shopping with $£ 60$ and when I return I have $£ 25$ left. What fraction of the money did I spend? Give the answer in its simplest form.

