Revising for Grade 4 in Mathematics

Session 3

Quick Quiz

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

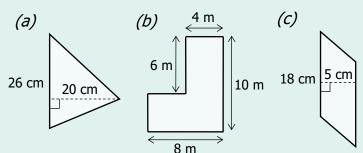
A ramp is 3 cm long on the plan. What is the real length of the ramp, in metres?

Add a square (4) so that this is a net of a cube.

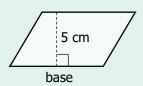


Review of Session 2

Work out the areas of these shapes. (1)



(2) The area of this parallelogram is 42 cm². 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:

$$8:28 = 2:7$$

Practice Questions

(1) Simplify each fraction as far as possible:

(a)
$$\frac{8}{18}$$

- (a) $\frac{8}{18}$ (b) $\frac{15}{21}$ (c) $\frac{35}{100}$ (d) $\frac{30}{45}$

- Simplify each ratio as far as possible: (2)
 - (a) 6:14
- (b) 25:35
- (c) £1.20:80p
- (d) 2.4 m: 66 cm
- In Year 11 there are 80 girls and 64 (3) boys. What is the ratio of girls: boys, in its simplest form?
- I go shopping with £60 and when I (4) return I have £25 left. What fraction of the money did I spend? Give the answer in its simplest form.