TARGET To solve word problems involving the calculation and conversion of units of measure.

Example

An avenue of trees is 2.16 km long. The trees are evenly spaced 15 m apart. How many are there on each side of the avenue?

 $2.16 \, \text{km} = 2160 \, \text{m}$ $2160 \div 15 = 144$

Answer There are 145 trees on each side of the avenue. (144 spaces plus the final tree.)



A

- A park has a perimeter of 1700 m. Kylie runs round the park five times.
 How far has she run altogether in kilometres?
- 2 A cafe has 7.8 litres of soup. It provides 30 equal servings. How much is each serving in millilitres?
- 3 One can of peas weighs 200 g. The cans on the shelves of a shop weigh 7.4 kg altogether. How many cans are on the shelves?
- 4 One gallon is 4.5 litres. What is nine gallons in litres?
- A lawn is 18.4 m wide.

 A mower cuts strips of grass 80 cm wide.

 How many times will the mower need to be pushed the length of the lawn in order to cut the grass?
- 6 Each bag of chips weighs 1500 g. What is the total weight of six bags?

- 00
- 1 One bottle of vinegar holds 350 ml. How much vinegar is in eighteen bottles in litres?
- 2 One pound is 1.6 US dollars.
 - a) How many dollars is £8.30?
 - b) How many pounds is 72 dollars?
- 3-4 cm of wire. How much wire is needed for 4000 pins in metres?
- Pots of mustard hold 190 ml. How many pots can be filled from 4.75 litres?
- 5 A patio is 7 m long and 5.46 m wide. What is the area of the patio?
- 6 A small jar of hand cream holds 50 ml. How many jars can be filled from 3-8 litres?



- C
- 1) A pot of gold fish food holds 13 g. How much food is there in 175 pots in kilograms?
- 2 Each magazine in a stack is 18 mm thick. The stack is 61-2 cm tall. How many magazines are there?
- 3 Bottles of washing up liquid each hold 435 ml. There are 24 bottles in a box. How much washing up liquid is there in a box in litres?
- 4 One kilogram is 2.2 pounds weight (lbs). An American footballer weighs 277.2 lbs. What is this in kilograms?
- 5 The perimeter of a rectangular room is 22 m. The longest side is 6.5 m. What is the area of the room?
- 6 Each can of fruit weighs 350 g. How many cans would have a total weight of 15.4 kg?