

# Dates and Shapes

## Problem One

In what ways can you make a total of 12 by adding four odd numbers?

The same odd number can be used more than once, for example,  $3 + 3 + 3 + 3 = 12$ .

## Problem Two

Jenny's birthday is on a Tuesday this year. She worked out that she was born on a Monday.

What day is your birthday on this year?

Can you use that information to find out what day you were born on? (Remember that every fourth year is a leap year.)

## Problem Three

Triominoes are made by joining three squares side to side.

Tetrominoes are made by joining four squares side to side.

- a. Make and cut out four tetrominoes that are different shapes from the one shown.
- b. Cut out two T-shaped tetrominoes. Make a rectangle with these and your other four tetrominoes.

## Problem Four

You have a 5 litre bucket and a 7 litre bucket. There are no marks on the buckets.

How could you measure 4 litres by filling these buckets and pouring from one to the other?