

# **Number Operations and Calculation Methods**

# Age 11+ Level ★ Worksheet 2

#### 1. Down and Along

The letters J, M and  $\mathcal{C}$  represent three different non-zero digits.

What are the values of J, M and C?

#### 2. 354972

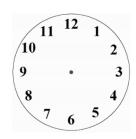
What is the remainder when 354972 is divided by 7?

#### 3. Subtracting to 2008

In this subtraction, P, Q, R and S are digits. What is the value of P + Q + R + S?

## 4. Split Clock face

Use 2 straight lines to split the clock face into 3 parts, so that the sums of the numbers in each of the parts are equal.



## 5. 50, 50, 50 and 50

Aroon says his age is 50 years, 50 months, 50 weeks and 50 days. What age will he be on his next birthday?

#### **6. Missing Digits**

In this calculation, K, L, M, N and P each denote a single digit.

Find K, L, M, N and P.

These problems are adapted from UKMT (ukmt.org.uk) and WMC (competition.ac) problems.