



## Problem of the Week Grade 9 and 10

### Where There's A Will

In his will, a father left all of his money to his children in the following manner:

- (i) \$1000 to the oldest child plus  $\frac{1}{10}$  of what remains, then
- (ii) \$2000 to the second oldest child plus  $\frac{1}{10}$  of what then remains, then
- (iii) \$3000 to the third oldest child plus  $\frac{1}{10}$  of what then remains, and so on.

After all of the money had been distributed, each child had received the same amount. How many children were there?

