

***** **Mathematical Weekly** *****
(week ten)

Have you ever noticed this simple pattern before?

$$\begin{array}{rclcl} 1 & + & 1 & + & 5 & = & 7 \\ 12 & + & 21 & + & 44 & = & 77 \\ 123 & + & 321 & + & 333 & = & 777 \\ 1234 & + & 4321 & + & 2222 & = & 7777 \\ 12345 & + & 54321 & + & 11111 & = & 77777 \\ 123456 & + & 654321 & + & 000000 & = & 777777 \\ 1234567 & + & 7654321 & - & 1111111 & = & 7777777 \\ 12345678 & + & 87654321 & - & 22222222 & = & 77777777 \\ 123456789 & + & 987654321 & - & 333333333 & = & 777777777 \end{array}$$