

\*\*\*\*\* **Mathematical Weekly** \*\*\*\*\*

**Week 34**

$$\begin{aligned} 2000 &= (2+3)^4 / 5 \times (6-7+8+9) \\ &= (-1+3^4) \times (-5+6+7+8+9) \\ &= 1 \times 2 \times 4^5 - 6 \times (7-8+9) \\ &= 1 \times (2^{(3+5)} - 6) \times (7-8+9) \\ &= 1 \times 2^3 + 4 \times (-6+7 \times 8 \times 9) \\ &= -1+2+3+4 \times (-5+7 \times 8 \times 9) \\ &= -1 + ((2-3+4)^5 + 6) \times 8 \times 9 \\ &= 1 \times (2+3)^{(4+5-6)} \times (7+9) \\ &= (1-2+3) \times 4 \times 5 \times (6 \times 7+8) \end{aligned}$$

**GRC ☺**