

## Maths of the Day

$$\sum_{n=1}^{\infty} \frac{1}{n} \left( \zeta(2) - 1 - \frac{1}{2^2} - \cdots - \frac{1}{n^2} \right) \left( \zeta(3) - 1 - \frac{1}{2^3} - \cdots - \frac{1}{n^3} \right)$$
$$= \zeta^2(3) - \frac{61}{48} \zeta(6)$$