

Maths of the Day

$$\sum_{k=1}^{\infty} \frac{H_k}{k^2 2^k} = \zeta(3) - \frac{1}{2} \log(2) \zeta(2)$$

$$\sum_{k=1}^{\infty} \frac{H_k}{(k+1)^2 2^k} = \frac{1}{4} \zeta(3) - \frac{1}{3} \log^3(2)$$