

■ Answer the following by supplying the missing limits and expression after Σ

$$[1] \quad \sum_{k=1}^n k = 1 + \sum_{\square=\square}^{\square} \square$$

$$[2] \quad \sum_{k=1}^n k = n + \sum_{\square=\square}^{\square} \square$$

$$[3] \quad \sum_{k=1}^n k = 1 + n + \sum_{\square=\square}^{\square} \square$$

$$[4] \quad \sum_{k=1}^n 2^k = 2 + \sum_{\square=\square}^{\square}$$

$$[5] \quad \sum_{k=1}^n 2^k = 2 + 2^n + \sum_{\square=\square}^{\square} \square$$

$$[6] \quad \sum_{k=1}^n 2^k 3^{k+1} = 18 + 108 + \sum_{\square=\square}^{\square} \square$$

■ Answers

$$[1] \quad 1 + \sum_{k=2}^n k$$

$$[2] \quad n + \sum_{k=1}^{n-1} k$$

$$[3] \quad 1 + n + \sum_{k=2}^{n-1} k$$

$$[4] \quad 2 + \sum_{k=2}^n 2^k$$

$$[5] \quad 2 + 2^n + \sum_{k=2}^{n-1} 2^k$$

$$[6] \quad 18 + 108 + \sum_{k=3}^n 2^k 3^{k+1}$$