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a $\sum_{k=1}^{6} \frac{1}{3k}$

$= (3.33 \times 10^{-1}) + (1.11 \times 10^{-1})$
$+ (0.123 \times 10^{-1}) + (0.0412 \times 10^{-1})$
$+ (0.0137 \times 10^{-1})$

$= (4.44 \times 10^{-1}) + (0.123 \times 10^{-1}) + \dots$

$= (4.56 \times 10^{-1}) + (0.0412 \times 10^{-1}) + \dots$

$= (4.60 \times 10^{-1}) + (0.0137 \times 10^{-1})$

$= \boxed{4.61 \times 10^{-1}}$