## Summation Notation Examples

(Using Directly Over and Under) with SimBraille

1. The sum from $n$ equals one to three of two $n$ minus one is written
$\sum_{n=1}^{3} 2 n-1$

2. The sum from $k$ equals one to ten of five equals fifty is written

$$
\sum_{k=1}^{10} 5=50
$$

3. The sum from $n$ equals two to four of open fraction one over $n$ minus one close fraction equals one and five-sixths is written

$$
\begin{aligned}
& \sum_{n=2}^{4} \frac{1}{n-1}=1 \frac{5}{6}
\end{aligned}
$$

$$
\begin{aligned}
& \text { : : : : : : : : : \% : : : : : }
\end{aligned}
$$

4. The sum from $i$ equals one to infinity of ten open parenthesis one-half close parenthesis to the n minus 1 power equals twenty is written
$\sum_{i=1}^{\infty} 10\left(\frac{1}{2}\right)^{n-1}=20$

: : : : : : :
5. The sum from $i$ equals one to $n$ of $x$ sub $i$ is written

$$
\begin{aligned}
& \sum_{i=1}^{n} x_{i}
\end{aligned}
$$

