6. In the addition sum shown, each of the letters T, H, I and S represents a non-zero digit.
What is $T + H + I + S$?

$$\begin{array}{cccc} T & H & I & S \\ + & & I & S \\ \hline 2 & 0 & 1 & 4 \end{array}$$

A 34 B 22 C 15 D 9 E 7

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6. **B** Working from right to left, the units column shows that $S = 2$ or 7. If $S = 2$, then $I + I = 1$ or 11, neither of which is possible. Hence $S = 7$ and it follows that $I + I = 0$ or 10. However, as the digits are non-zero, $I = 5$. The hundreds column then shows that $H = 9$ and so $T = 1$. This gives $T + H + I + S = 1 + 9 + 5 + 7 = 22$.