## Homework Solutions

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## Exercise 1

(a)
(i) $\quad H_{0}: \quad p=0.50$
(ii) $\begin{array}{ll}H_{0}: & p=0.50 \\ H_{1}: & p \neq 0.50\end{array}$
(b) (i) A Type I error would be to conclude that the proportion of Democrats is more than 0.50 when it is really 0.50 . A Type II error would be to conclude that the proportion of Democrats is 0.50 when it is really more than 0.50 .
(ii) A Type I error would be to conclude that the proportion of male births is not $\frac{1}{2}$ when it is really $\frac{1}{2}$. A Type II error would be to conclude that the proportion of male births is $\frac{1}{2}$ when it is really not $\frac{1}{2}$.

