

# Assignment -2 in L<sup>A</sup>T<sub>E</sub>X

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**Question 10.13.1.26:** There are four men and six women on the city council. If one council member is selected for a committee at random, how likely is it that it is a woman?

**Solution:**

Parameter	Value	Description
X	0	Male
	1	Female

TABLE 0: Council distribution

$$X = \begin{cases} 0, & \text{if member is a man} \\ 1, & \text{if member is a woman} \end{cases} \quad (1)$$

With reference to Table 0

$$p_X(1) = \frac{6}{6+4} = \frac{6}{10} \quad (2)$$

The desired probability is:

$$p_X(1) = \frac{6}{10} \quad (3)$$