$$\Phi(1) - \Phi(-1) = \Phi(1) - (1 - \Phi(1)) = 2\Phi(1) - 1$$
$$\approx 2(.84) - 1 = 1.68 - 1 = 0.68$$

Let $Y = X_1 + X_2 + \cdots + X_n$

$$E[Y] = E\left[\sum_{i=1}^{n} X_i\right] = \sum_{i=1}^{n} E[X_i] = \sum_{i=1}^{n} \mu = n\mu$$

$$Var(Y) = Var\left(\sum_{i=1}^{n} X_i\right) = \sum_{i=1}^{n} Var(X_i) = \sum_{i=1}^{n} \sigma^2 = n\sigma^2$$

$$\sigma_Y = \sqrt{Var(Y)} = \sqrt{n\sigma^2} = \sigma\sqrt{n}$$