

LÖSUNG ZU 439:

$$P(X \leq 900) = \Phi\left(\frac{900-900}{20}\right) = \Phi(0) \quad \rightarrow 1F$$

$$P(X \geq 920) = \Phi\left(-\frac{920-900}{20}\right) = \Phi(-1) = 1 - \Phi(1) \quad \rightarrow 2D$$

$$P(840 < X < 960) = \Phi\left(\frac{960-900}{20}\right) - \Phi\left(\frac{840-900}{20}\right) = \Phi(3) - \Phi(-3) = 2 \cdot \Phi(3) - 1 \quad \rightarrow 3A$$

$$P(X \leq 860) = \Phi\left(\frac{860-900}{20}\right) = \Phi(-2) \quad \rightarrow 4E$$

Lösung: 1F, 2D, 3A, 4E

