

1 Exercises. Calculating normal probabilities: standardization.

1. X daily sales in a shop follow a $N(\mu = 100, \sigma = 10)$ distribution. Calculate these probabilities and answer the questions:
 - (a) Sales being smaller than 120.
 - (b) Sales being larger than 115.
 - (c) Sales being smaller than 90.
 - (d) Sales being larger than 88.
 - (e) Sales being between 95 and 105.
 - (f) How much are sales at most with a 90% probability?
 - (g) How much are sales at least with a 95% probability?