

## Solutions

---

Each answer shows the steps, then the **result**.

### 2.1

- about 68% within  $1\sigma$ , 95% within  $2\sigma$ , 99.7% within  $3\sigma$

### 2.2

- $z = \frac{60 - 50}{5} = 2$

### 2.3

- the mean  $\mu$  and the standard deviation  $\sigma$

### 3.1 B

### 3.2 B

### 3.3

(a)

- $z = \frac{115 - 100}{15} = 1$

(b)

- about 68%