

## Quiz 3

### Q1.

**5.36** A manufacturing company uses an acceptance scheme on production items before they are shipped. The plan is a two-stage one. Boxes of 25 are readied for shipment and a sample of 3 is tested for defectives. If any defectives are found, the entire box is sent back for 100% screening. If no **defectives** are found, the box is shipped.

- (a) What is the probability that a box containing 3 defectives will be shipped?
- (b) What is the probability that a box containing only 1 defective will be sent back for screening?

### Q2.