**a) The interquartile ranges**

**IQR = Q3 – Q1**

* **Day Class:**  
  IQR = 82.5 – 56 = **26.5**
* **Night Class:**  
  IQR = 89 – 78 = **11**

**Comparison:**

* The **Day Class** has a **wider spread** in the middle 50% (IQR = 26.5) than the Night Class (IQR = 11).
* So, scores in the Day Class are more spread out in the middle range.

**b) Any outliers in either set**

An outlier is below **Q1 – 1.5 × IQR** or above **Q3 + 1.5 × IQR**.

**Day Class:**

* Lower outliers: 56 – (1.5 × 26.5) = 56 – 39.75 = **16.25**
* Upper outliers: 82.5 + (1.5 × 26.5) = 82.5 + 39.75 = **122.25**

Minimum = 32 (above 16.25)  
Maximum = 99 (below 122.25)  
**No outliers**

**Night Class:**

* Lower outliers: 78 – (1.5 × 11) = 78 – 16.5 = **61.5**
* Upper outliers: 89 + (1.5 × 11) = 89 + 16.5 = **105.5**

Minimum = 25.5 (below 61.5)  
Maximum = 98 (below 105.5)

Minimum is **below the lower outliers**, so:  
**Yes, there’s a low outlier for the Night Class.**