a. The interquartile range. Compare the two interquartile ranges.

b. Any outliers in either set.

The five number summary for the day and night classes is

	Minimum	Q_1	Median	Q_3	Maximum
Day	32	56	74.5	82.5	99
Night	25.5	78	81	89	98

Day!

$$IQR = Q_3 - Q_1$$

$$= 82.5 - 56$$

$$= 26.5$$

$$(1.5)(IQR) = 1.5 * 26.5$$

$$= 39.75$$

$$Q_1 - (1.5)(IQR) = 56 - 39.75$$

$$= 16.25.$$

$$Q_3 + (1.5)(IQR) = 82.5 + 39.75$$

$$= 122.25$$

Night:

$$IQR = Q_3 - Q_1$$
$$= 89 - 78$$
$$= 11$$

$$(1.5)(IQR) = 1.5 * 11$$
$$= 16.5$$

$$Q_1 - (1.5)(IQR) = 78 - 16.5$$
$$= 61.5$$

$$Q_3 + (1.5)(IQR) = 89 + 16.5$$
$$= 105.5$$