

# 1/11 Algebra 1 - Downing

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## 11.34 Finding Outliers

1.5 IQR Test find w/o guessing

$$\text{Lower Boundary} = Q_1 - 1.5 IQR$$

$$\text{Upper Boundary} = Q_3 + 1.5 IQR$$

15 15 20 25 25 30 30 35 75 85

$$\text{Min} = 15 \quad 1.5 (IQR) = 1.5 (15) = 22.5$$

$$Q_1 = 20 \quad \text{Lower Boundary} = Q_1 - 1.5 (IQR)$$

$$\text{Mech} = 30 \quad 20 - 22.5 = -2.5$$

$$Q_3 = 35 \quad \text{Upper Boundary} = Q_3 + 1.5 (IQR)$$

$$\text{Max} = 85 \quad 35 + 22.5 = 57.5$$

$$IQR = 35 - 20 = 15$$

75 and 85 are  
outliers