Lesson 2.3 Practice: Boxplots and Outliers

School Launch · Statistics · Unit 2: Describing Data with Numbers · Worksheet A

Calculator / tables

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Data: 20, 23, 25, 25, 26, 26, 28, 34, 35, 69. Find Q_1, Q_3, the IQR, and any outliers by the $1.5\times$IQR rule. EASY

2. Data: 20, 21, 25, 26, 31, 32, 33, 36, 38, 96. Find Q_1, Q_3, the IQR, and any outliers by the $1.5\times$IQR rule. EASY

3. Data: 21, 23, 25, 30, 31, 35, 36, 39, 39, 94. Find Q_1, Q_3, the IQR, and any outliers by the $1.5\times$IQR rule. EASY

4. Data: 20, 25, 29, 30, 31, 31, 33, 37, 40, 40. Find Q_1, Q_3, the IQR, and any outliers by the $1.5\times$IQR rule.

MEDIUM

5. Data: 22, 27, 27, 31, 32, 35, 35, 38, 38, 40. Find Q_1, Q_3, the IQR, and any outliers by the $1.5\times$IQR rule.

MEDIUM

6. Data: 20, 21, 23, 25, 25, 26, 32, 33, 38, 95. Find Q_1, Q_3, the IQR, and any outliers by the $1.5\times$IQR rule.

MEDIUM

7. Data: 20, 22, 22, 29, 29, 33, 36, 37, 39, 72. Find Q_1, Q_3, the IQR, and any outliers by the $1.5\times$IQR rule.

MEDIUM

8. Data: 20, 24, 26, 27, 28, 31, 34, 35, 39, 99. Find Q_1, Q_3, the IQR, and any outliers by the $1.5\times$IQR rule.

HARD

9. Data: 20, 22, 23, 27, 29, 32, 33, 35, 38, 84. Find Q_1, Q_3, the IQR, and any outliers by the $1.5\times$IQR rule.

HARD

10. Data: 20, 22, 22, 27, 27, 28, 31, 31, 34, 92. Find Q_1, Q_3, the IQR, and any outliers by the $1.5\times$IQR rule.

HARD