Lesson 13.2 Practice: Choosing a Measure and Outliers

School Launch · Pre-Algebra · Unit 13: Data and Probability · Worksheet A

No calculator

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, 20, 22, 23, 26, 26, 31, 36, 36, 99. Find Q_1, Q_3, the IQR, and any outliers by the $1.5\times$IQR rule. EASY

2. A distribution has mean 39 and median 47. What is its likely shape, and which measure of center is better to report? EASY

3. Data: 21, 22, 23, 23, 24, 26, 29, 36, 38, 70. Find Q_1, Q_3, the IQR, and any outliers by the $1.5\times$IQR rule. EASY

4. A distribution has mean 59 and median 59. What is its likely shape, and which measure of center is better to report? MEDIUM

5. Data: 21, 21, 25, 26, 27, 29, 32, 33, 33, 72. Find Q_1, Q_3, the IQR, and any outliers by the $1.5\times$IQR rule. MEDIUM

6. A distribution has mean 64 and median 64. What is its likely shape, and which measure of center is better to report? MEDIUM

7. Data: 23, 26, 27, 29, 30, 30, 32, 33, 34, 79. Find Q_1, Q_3, the IQR, and any outliers by the $1.5\times$IQR rule. MEDIUM

8. A distribution has mean 53 and median 61. What is its likely shape, and which measure of center is better to report? HARD

9. Data: 21, 23, 24, 26, 27, 32, 34, 35, 36, 79. Find Q_1, Q_3, the IQR, and any outliers by the $1.5\times$IQR rule. HARD

10. A distribution has mean 46 and median 46. What is its likely shape, and which measure of center is better to report? HARD