

Practice 12-3

Analyzing Data

Identify the outliers of each set of values.

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|---------------------------------|--|
| 1. 23 76 79 76 77 74 75 | 2. 43 46 49 50 52 54 78 47 |
| 3. 32 35 3 36 37 35 38 40 42 34 | 4. 153 156 176 156 165 110 159 169 172 |

Find the mean, median, and mode of each set of values.

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|---|---|
| 5. 98 87 79 82 101 99 97 97 102 91 93 | 6. 41 41 45 46 54 52 53 50 49 47 49 48 44 |
| 7. 2.3 2.4 2.5 2.8 2.4 2.4 2.9 2.6 2.4 2.9 | 8. 15.2 15.3 15.9 16.1 16.3 15.4 15.5 15.6 15.8 |
| 9. 245 345 365 566 442 476 423 495 412 | 10. 1002 1005 1023 1034 1012 1054 1023 |
| 11. 0.019 0.021 0.018 0.019 0.018 0.020 | 12. 23 29 31 32 29 27 21 19 25 26 28 29 24 |
| 13. 45 49 41 45 51 39 42 46 49 48 42 40 | 14. 3 5 31 35 41 49 50 51 52 53 54 69 81 99 |
| 15. 14 15 19 15 15 16 19 20 21 29 16 17 | 16. 1.8 1.3 1.9 1.5 1.6 1.5 1.8 1.5 1.3 1.4 1.3 |
| 17. 8.7 8.8 8.9 9.4 10.2 9.8 9.0 8.1 9.5 | 18. 101 114 128 106 125 122 120 114 116 |
| 19. 4.25 4.46 4.19 4.23 4.25 4.28 4.27 4.35 | 20. 11 15 18 22 25 29 32 36 39 41 42 45 48 51 |

Make a box-and-whisker plot for each set of values.

21. 2 8 3 7 3 6 4 9 10 15 21 29 32 30 5 7 32 4 11 13 11 14 10 12 13 15
22. 1054 1165 1287 1385 1456 1398 1298 1109 1067 1384 1499 1032 1222 1045
23. 43.4 46.5 47.9 51.0 50.2 49.5 42.5 41.6 46.8 50.0
24. 19 20 21 22 23 25 27 12 19 31 53 52 48 41 29 33 48 46 44 42

Find the values at the 20th and 80th percentiles for each set of values.

25. 188 168 174 198 186 178 184 190 176 172 170 180 182 186 176
26. 376 324 346 348 350 352 356 368 345 360
27. 98 99 96 94 95 96 97 99 95 94 93 96 97 98 99 97 96 94 92 97
28. 2 12 17 20 22 28 32 37 38 41 44 51 53 59 62 78 86 92 102 112
29. The data shows the average temperatures in January for several cities in the mid-South.
49.1 50.8 42.9 44.0 44.2 51.4 45.7 39.9 50.8 46.7 52.4 50.4
 - a. Find the mean of the temperatures.
 - b. Find the median of the temperatures.
 - c. Find the mode of the temperatures.
 - d. Find the quartiles of the data. Sketch a box-and-whisker plot, and label the quartiles.

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