

Self-Check 2.3, 2.4

Name: _____ Date: _____ Row: _____

Self-Check 2.3, 2.4

1. For the following 11 salaries, calculate the IQR and determine if any salaries are outliers. The salaries are in dollars. \$33,000; \$64,500; \$28,000; \$54,000; \$72,000; \$68,500; \$69,000; \$42,000; \$54,000; \$120,000; \$40,500.
2. Forty bus drivers were asked how many hours they spend each day running their routes (rounded to the nearest hour).

Amount of time spent on route (hours)	Frequency	Relative Frequency	Cumulative Relative Frequency
2	12	0.30	0.30
3	14	0.35	0.65
4	10	0.25	0.90
5	4	0.10	1.00

- a. Find the 65th percentile.
 - b. Find the third quartile.
3. Listed are 29 ages for Academy Award winning best actors in order from smallest to largest. 18; 21; 22; 25; 26; 27; 29; 30; 31; 33; 36; 37; 41; 42; 47; 52; 55; 57; 58; 62; 64; 67; 69; 71; 72; 73; 74; 76; 77.
 - a. Find the 20th percentile.
 - b. Find the 55th percentile.
 4. Listed are 30 ages for Academy Award winning best actors in order from smallest to largest. 18; 21; 22; 25; 26; 27; 29; 30; 31; 31; 33; 36; 37; 41; 42; 47; 52; 55; 57; 58; 62; 64; 67; 69; 71; 72; 73; 74; 76; 77.
 - a. Find the percentiles for 47.
 - b. Find the percentiles for 31.
 5. Construct a box plot for the data values shown.
0; 5; 5; 15; 30; 30; 45; 50; 50; 60; 75; 110; 140; 240; 330.

Self-Check 2.3, 2.4 is shared under a [not declared](#) license and was authored, remixed, and/or curated by LibreTexts.