

### Z-score practice

The average number of matches OKCupid users get per month is 10, with a standard deviation of 3. The user "NickylovesCuddles937" only matches with 2 people per month ☹️.

- What would NickylovesCuddles937's z-score be for OKCupid matches?
- What percent of people get more matches per month than NickylovesCuddles937?
- What percent of people get less matches per month than NickylovesCuddles937?

### Solution

a)  $z = \frac{x - \bar{x}}{s}$        $(2-10)/3 = -2.67$        $z = -2.67$

- 99.62% of users get more matches per month than NickylovesCuddles937.
- 0.38% of users get less matches per month than NickylovesCuddles937.