

Interpreting Regression Lines & r-Values

Each description on the left is written about the linear regression findings on the right. Fill in the blanks using the information in the line of best fit and the r-value.

1	<p>For every additional Marvel Universe movie released each year, the average person is predicted to consume _____ pounds of sugar!</p> <p style="text-align: center;">[amount] [more / fewer]</p> <p>This correlation is _____.</p> <p style="text-align: center;">[strong, moderate, weak, non-existent]</p>	$y = -3.19x + 12$ $r = -0.05$
2	<p>Shoe size and height are _____,</p> <p style="text-align: center;">[strongly, moderately, weakly, not]</p> <p>_____ correlated. If person A is one size bigger than person B, we predict that they will be roughly _____ inches taller than person B as well.</p> <p style="text-align: center;">[positively / negatively]</p> <p style="text-align: center;">[amount]</p>	$y = 1.65x + 52$ $r = 0.89$
3	<p>There is _____ relationship found between the number of Uber drivers in a city and the number of babies born each year.</p> <p style="text-align: center;">[a strong, a moderate, a weak, no]</p>	$y = -15.3x + 1150$ $r = 0.01$
4	<p>The correlation between weeks-of-school-missed and SAT score is _____ and _____. For every week a student misses, we predict a more than a _____ point _____ in their SAT score.</p> <p style="text-align: center;">[strong, moderate, weak, non-existent] [positive / negative]</p> <p style="text-align: center;">[amount]</p> <p style="text-align: center;">[gain / drop]</p>	$y = -5.35x - 16$ $r = -0.65$
5	<p>There is a _____, _____ correlation between the number of streaming video services someone has, and how much they weigh. For each service, we expect them to be roughly _____ pounds heavier.</p> <p style="text-align: center;">[strong, moderate, weak, non-existent] [positive / negative]</p> <p style="text-align: center;">[amount]</p>	$y = 1.6x + 160$ $r = 0.12$