

Campus Academic Resource Program

Interpretation and Definition of the Linear Regression Equation Practice Problems

d) Interpret the y intercept of the equation relating cricket chirps to temperature.

e) Does your answer for (d) make “real world” sense? Why or why not?

2. A preschool has kept track of its enrollment from 1980 to 2015. The following linear regression equation shows the relationship between enrollment at the preschool and the year: $y = 1.1595x - 2283$ where y is the number of students enrolled and x is the year. Please answer the following questions:²

a) How many students is the preschool expected to have in 2017? 2025?

b) What year is it if there are 75 students enrolled in the preschool?

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Works Cited

1. <http://mathbits.com/MathBits/TISection/Statistics2/linearREAL.htm>
2. <http://www.mathwarehouse.com/statistics/regressions/calculate-linear-regression.php>