

Answer on Question #55197 – Math – Statistics and Probability

The mitch hawker poll ranked the top 10 steel roller coasters in 2011. a regression to predict duration from drop has $R^2 = 15.2\%$.

- a) what are the variables and units in this regression
- b) what units does the slope have
- c) do you think the slope is positive or negative? Explain

Solution

- a) Dependent variable is Y = “the duration of the ride” (in seconds). The independent variable is X = “the initial drop” (in feet).
- b) Seconds per feet.
- c) It is positive. When the initial drop is higher, the ride is longer.