

Name _____ Period _____ Date _____

Statistics & Probability:

Bivariate Data

Performance Task D

1

In this task, you will use data to create a model that shows the relationship between animal body weight and pulse rate measures. Then you will examine additional data to evaluate your model.

A study states that the relationship between an animal's pulse rate and body weight is approximately linear. The study data are below.

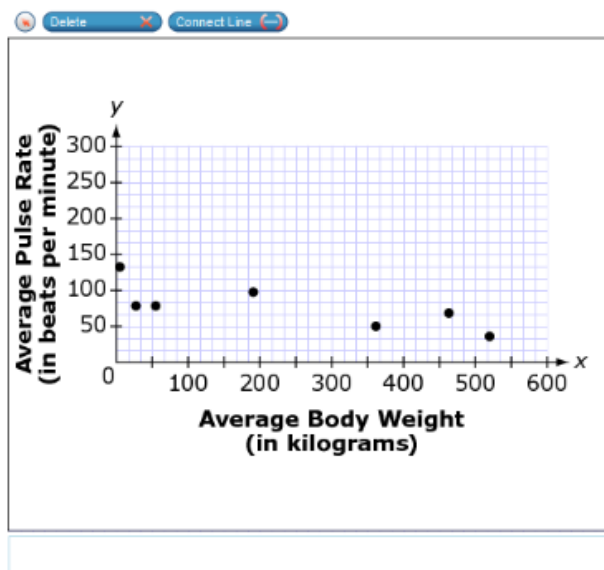
Table 1. Average Body Weight and Average Pulse Rate of Seven Animals

Animal	Average Body Weight (in kilograms)	Average Pulse Rate (in beats per minute)
Cat	3	130
Goat	28	75
Sheep	56	75
Pig	192	95
Ox	362	48
Cow	465	66
Horse	521	34

SBAC Math 8 Task D

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The data from Table 1 are plotted below. Use the Connect Line tool to create a linear model of these data.



2.

What is the equation of the line you drew in Item 1?