Name _____

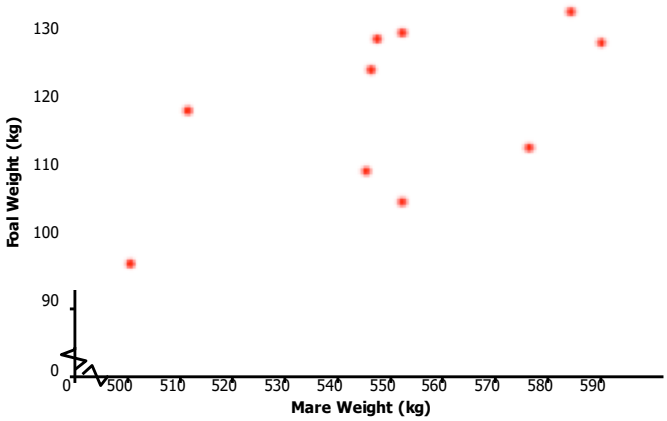
Date_____

Lesson 14: Modeling Relationships with a Line

Rate and Ratio Problem Set: Participant

Exit Ticket

2. Below is a scatter plot of foal birth weight and mare's weight.



The equation of the least squares line for the data is $y = -19.6 + 0.248x$, where x represents the mare's weight (in kg) and y represents the foal's birth weight (in kg).

a. What foal birth weight would you predict for a mare that weighs 520 kg?

b. How would you interpret the value of the slope in the least squares line?

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c. Does it make sense to interpret the value of the y-intercept in this context? Explain why or why not.

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