

Name: _____

1. Your baby pygmy hippo's weight, measured in pounds (lbs), is a function of its age, measured in days. That is, $w(t)$ gives the weight of the hippo t days after birth.

Write a sentence accurately interpreting the two equations below, *including units*. Your sentence must use all numbers in the equations.

$$w(30) = 35 \qquad w'(30) = 2$$

2. You are buying stickers to give out to celebrate your baby pygmy hippo, and the sticker company has offered you a discount if you buy in bulk. The total cost in dollars is given by a function $c(x)$ for buying x stickers.

Write a sentence accurately interpreting the two equations below, *including units*. Your sentence must use all numbers in the equation.

$$c(100) = 12 \qquad c'(100) = 0.05$$

Name: _____

1. The number of minutes of daylight is a function of day of the year. That is, $d(t)$ gives the how many minutes of daylight there are on day t of the year (since January 1st).

Write a sentence accurately interpreting the two equations below, *including units*. Your sentence must use all numbers in the equations.

$$d(260) = 744 \qquad d'(260) = -2.6$$

2. The daily energy consumption of an average household in Greeley during the summer is a function of the high temperature that day. That is, $f(t)$ is the number of kilowatt hours (kWh) used on a day when the high temperature is t degrees Fahrenheit.

Write a sentence accurately interpreting the two equations below, *including units*. Your sentence must use all numbers in the equation.

$$f(80) = 30 \qquad f'(80) = 0.25$$

Name: _____

1. The height of a giraffe is a function of its age. That is, $h(t)$ gives the height (in inches) of a giraffe t days after it is born.

Write a sentence accurately interpreting the two equations below, *including units*. Your sentence must use all numbers in the equations.

$$h(1) = 72 \qquad h'(1) = 0.2$$

2. The weight of a giraffe is a function of its height: $w(h)$ gives the weight in pounds (lbs) of a giraffe when it is h inches tall.

Write a sentence accurately interpreting the two equations below, *including units*. Your sentence must use all numbers in the equation.

$$w(72) = 150 \qquad w'(72) = 2$$

Name: _____

1. The population of Greeley is a function of time, measured in years since 2000. That is, $p(t)$ gives the population t years after 2000.

Write a sentence accurately interpreting the two equations below, *including units*. Your sentence must use all numbers in the equations.

$$p(24) = 114,363 \qquad p'(24) = 2,000$$

2. To weekly water consumption in Greeley is a function of its population: $w(p)$ gives the number of gallons used in a week when the population is p people.

Write a sentence accurately interpreting the two equations below, *including units*. Your sentence must use all numbers in the equation.

$$w(100,000) = 70,000,000 \qquad w'(100,000) = 600$$