

- 1** Julie started a pet-care business. She bought the necessary supplies for \$85. Julie charges \$25 per weekend for each pet she cares for. Which function represents her net profit in terms of x , for the number of pets she cares for?

$$y = 25x - 85$$

Explain the meaning of -85 _____

Explain the meaning of 25 _____

Explain the meaning of $25x$ _____

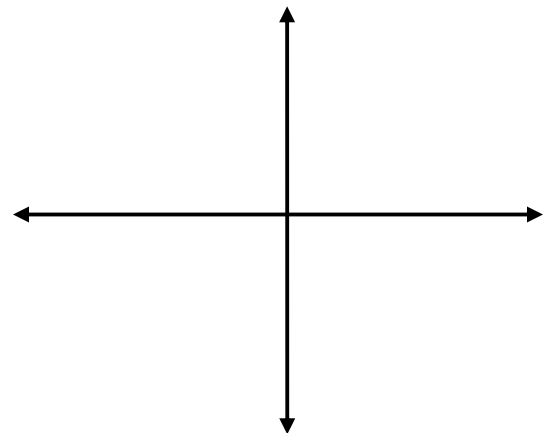
What vocabulary word defines " -85 " _____

What vocabulary word defines " 25 " _____

How much money would Julie make if she cared for 12 pets? (show your work)

How many pets would Julie have to care for to make 350 dollars? (show your work)

Make a sketch of the equation on the axis to the right.



- 2** Bradley the crocodile weighs 23 kilograms. His veterinarian wants him to be on a diet to lose 1.5 kg each month. Which equation represents Bradley's weight after x months?

$$y = -1.5x + 23$$

Explain the meaning of 23 _____

Explain the meaning of -1.5 _____

Explain the meaning of $-1.5x$ _____

What vocabulary word defines "23" _____

What vocabulary word defines " $-1.5x$ " _____

How many kg will Bradley weigh after 3 months? (show your work)

How many months will it take for Bradley to weigh 15 kg? (show your work)

Make a sketch of the equation on the axis to the right.

