

Name: _____



Bat Ears



In “Real-Life Bloodsuckers” (p. 8), you learned about vampire bats that feed on blood. Most bat species use *echolocation* to locate foods or to find their way in the night skies. They emit high-frequency sound waves and listen for them to bounce off objects to determine the distances of the objects. That’s why most bats have sharp hearing. Complete this activity to learn more about the hearing ranges of certain animals.

Hearing Range in Animals (in hertz)

Animal	Low	to	High
Humans	20		20,000
Bats	1,000		150,000
Grasshoppers and locusts	100		50,000
Horses	31		40,000
Whales and dolphins	70		150,000

Source: *Encyclopedia Britannica*

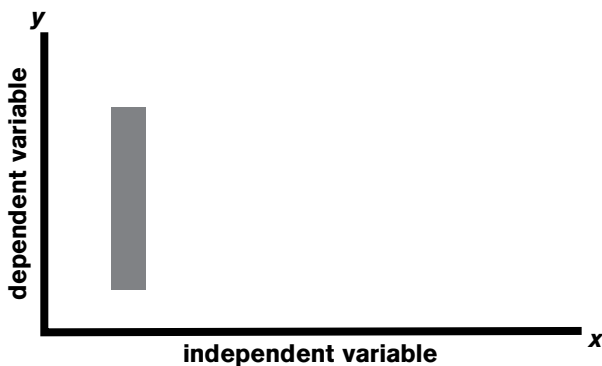


Graph It

Directions: On a separate sheet of paper, use the above data to construct the following:

Create a bar graph showing the hearing ranges of all the animals featured in the chart.

Hint: None of the hearing ranges begin at “0.” So a bar in your graph should begin above the *x*-axis, similar to the one in the example below.



Analyze It

Directions: Use the chart above and your graph to help you answer the following in complete sentences.

1. Which featured animal has the widest hearing range?
2. Which animal on the chart has the narrowest hearing range?
3. Which animal on the chart has a hearing range most similar to bats?
4. Human hearing range is most similar to that of which other animal featured on the chart?