Name _____ Date _____ Period _____

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Development of Evolutionary Theory

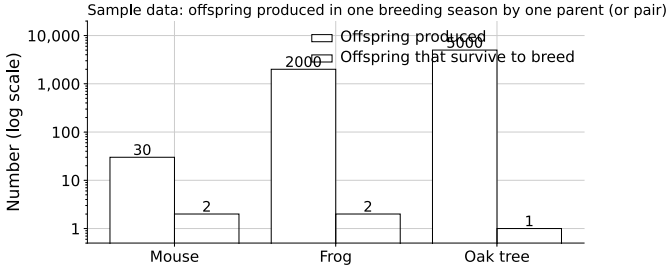
Biology

Answer in complete sentences. Use the graph and model as evidence.

1. Write the name of the scientist who proposed each idea. Choose from: Hutton, Malthus, Lamarck.

Idea	Scientist
Earth is very old and was shaped by slow processes (1788)	
Populations can grow faster than their food supply (1798)	
Traits gained during an organism's life are passed to its offspring (1809)	

2. The graph shows sample data for offspring produced and offspring that survive to breed.

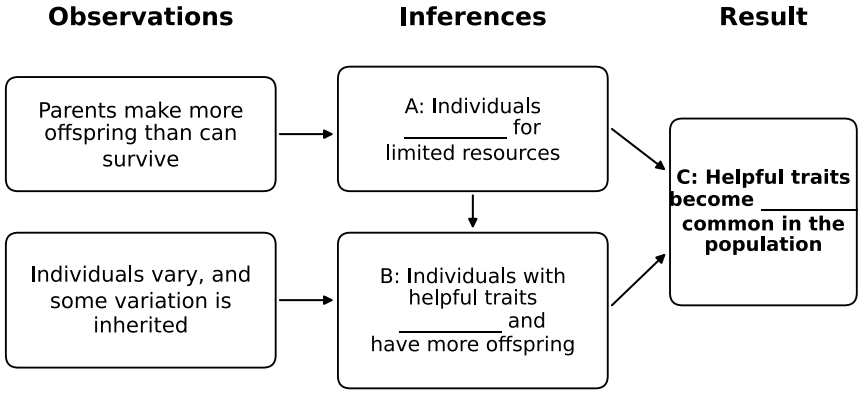


(a) For the mouse, how many times more offspring are produced than survive to breed?

(b) What does this pattern suggest happens to most offspring? Name the cause.

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3. The model shows Darwin's logic. Fill in the three blanks, A, B, and C.



(a) Blank A

(b) Blank B

(c) Blank C

4. Some people once thought that a giraffe stretches its neck to reach high leaves, and that its stretched neck is passed on to its offspring.

(a) Which scientist proposed this kind of idea?

(b) Explain how natural selection explains why giraffes have long necks. Use the words *variation* and *offspring*.

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