

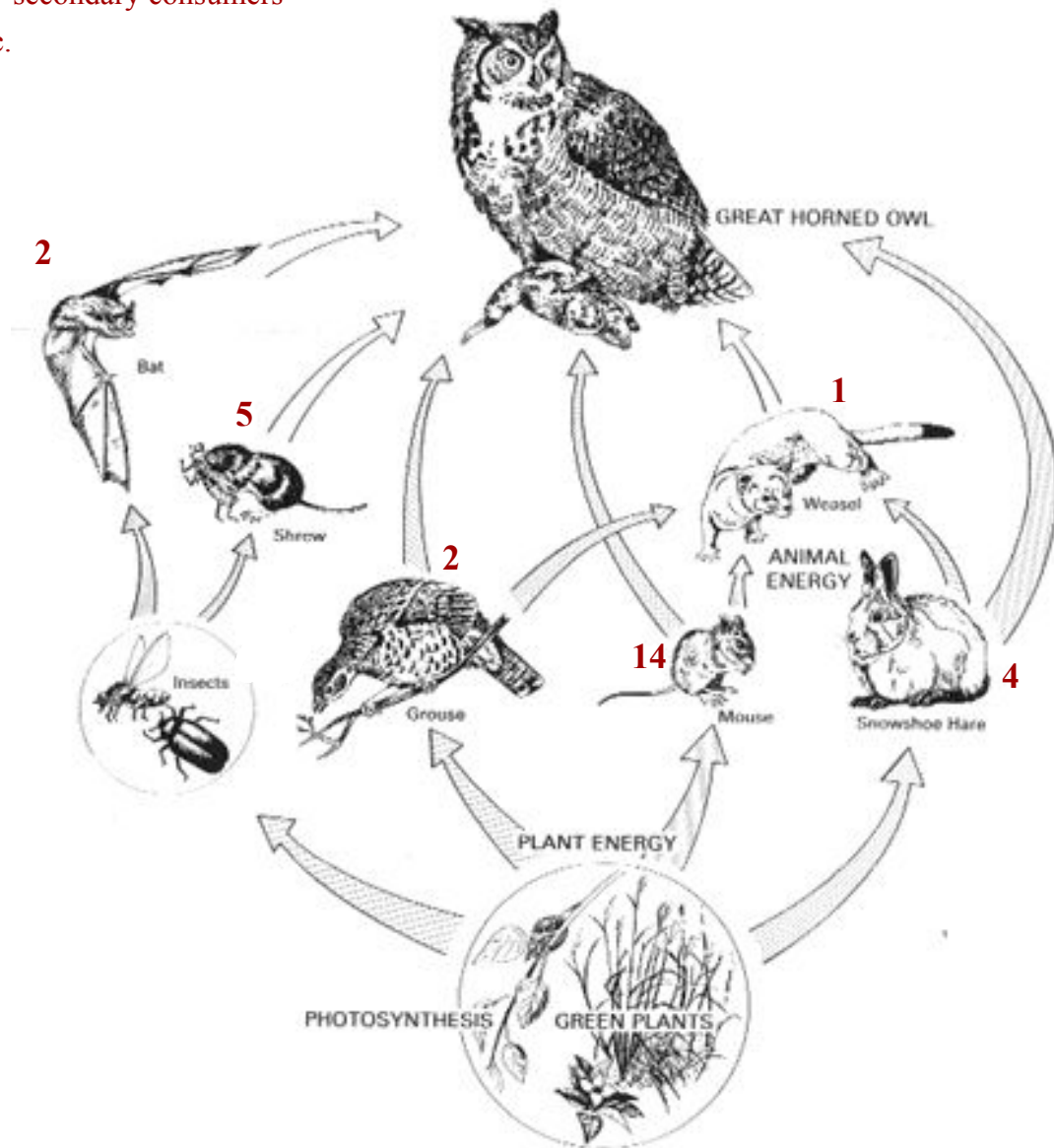
The food web below shows the diet of the great-horned owl, and the number of organisms it eats/month. Calculate its mean trophic level based on this data. Show your work on this page.

T1-primary producers

T2-primary consumers

T3-secondary consumers

etc.



To figure out the trophic level of the owl:

Add up the primary consumers eaten and multiply by 3. (TL+1, since it eats the T2)

Add up all of the secondary consumers eaten and multiply by 4. (TL +1 since it eats the T3)

Add those two numbers together.

Divide by the total number of animals eaten to get the trophic level of the owl.

1-Trophic level of the owl = 3.3

2-What type of animal would have a mean trophic level of exactly 2? Explain your answer.

3-What can happen to the mean trophic level of a fish in the ocean as it gets older? Explain your answer.

4-What mean trophic level would you expect a great white shark to be at? Explain your answer.

5-What range would you expect the mean trophic level of an omnivore to be? Explain your answer.