

How Animals Feed

Question 3

Name		School	
Class		Date	

Study the information in the table below.

Animal	Meals	Length of Meal (h)	Food Eaten (kg/day)	Mass of Animal (kg)
Gnu	each day	9	400	500
Elephant	each day	15	200	5000
Cheetah	every 2 or 3 days	eats quickly	6	50
Hyena	every 2 or 3 days	eats quickly	4	70

Animal	Typical Food
(a) Suggest what might be a typical food for each of the four animals named in the table above	Gnu=
	Elephant=
	Cheetah=
	Hyena=
(b) The Gnu actually spends 16h per day eat and chewing its food. What is happening during the 7h not shown in the table?	
(c) What percentage of its body mass is eaten by (i) the elephant and (ii) the cheetah with each meal? Use the following equation: $\frac{\text{mass of food} \times 100}{\text{mass of the animal}}$ or the mass of food (kg) multiplied by 100 and the result divided by the mass of the animal (kg). The answer is a percentage.	(i) elephant Space for calculation Answer:
	(ii) cheetah Space for calculation Answer:

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<p>(d) Why are the cheetah and hyena able to eat their food quickly, but the elephant and the gnu spend a long time chewing their food?</p>	
<p>(e) Why do you think that the cheetah and hyena are able to eat relatively small amounts every two days but the elephant and the gnu need to eat large amounts every day?</p>	