1

An investigation was carried out to find out how the breathing rate of a group of desert tortoises varied over a year.

The results are shown in the table.

Month	Average breathing rate (breaths/minute)
January	2.8
February	2.9
March	14.0
April	20.2
May	19.6
June	20.4
July	19.8
August	19.5
September	20.4
October	16.8
November	3.2
December	2.7

(i) Express, as a simple whole number ratio, the breathing rate in the (a) months of January, March and October.

Space for calculation

	:		:	
January	N	larch		October

8.	(a)	(cont	inued)				
		(ii)	Use evidence from the table to identify the months when desert tortoises were hibernating.	1			
	(b)		ere is a drought, desert tortoises survive by decreasing their heart rate and thing rate.				
	e this response and explain why it is consequential.	2					
		Name					
	anation						
	(c)	_	r gliders are small mammals that live in Australia. Their high metabolic are reduced each day.				
		(i)	Give the term used for this type of behaviour.	1			
		(ii)	State the advantage to sugar gliders of reducing their metabolic rate each day.	1			

[Turn over