



b) In Britain, mice need to eat their own mass of food every day to survive. Suggest why.

[3]

3.

Animal	Mean Annual Range of Temperature /°C	Surface Area/m ²	Volume/m ³	SA:V ratio
Grizzly Bear	1.7	20	6	3.3:1
Polar Bear	-6	19	6	3:1
Black Bear	6	17	4	
Sun Bear	26.7	7	1	7

a) Calculate the surface area to volume ratio of the black bear and complete the table.

[2]

b) What conclusions can you make about how the climate effects surface area to volume ratio?

[4]

Total = 17 marks