1. It is very important that meat products are stored at the correct temperature.

A student was investigating the growth of a bacterial culture at 20°C in a liquid containing meat extract. The following results were obtained:

Time (hrs)	E. coli (log ₁₀ of numbers per cm ³)	
0	2.0	
4	2.0	
8	3.0	
12	4.0	
16	5.0	
20	5.5	
24	6.0	

Table 16.1

Which of the following conclusions is correct?

- A The number of bacteria doubles between 4 hours and 12 hours.
- B There is a 25% increase in the number of bacteria between 12 and 16 hours.
- C There are 550 000 bacteria per cm³ after 20 hours.
- D There are a million bacteria per cm³ after 24 hours.

Your answer	

[1]

END OF QUESTION PAPER

Mark Scheme

Question		n	Answer/Indicative content	Marks	Guidance
1			D	1	
			Total	1	