

0 8

1

Complete the truth table for the AND logic gate.

[1 mark]

A	B	A AND B
0	0	
0	1	
1	0	
1	1	

0 8

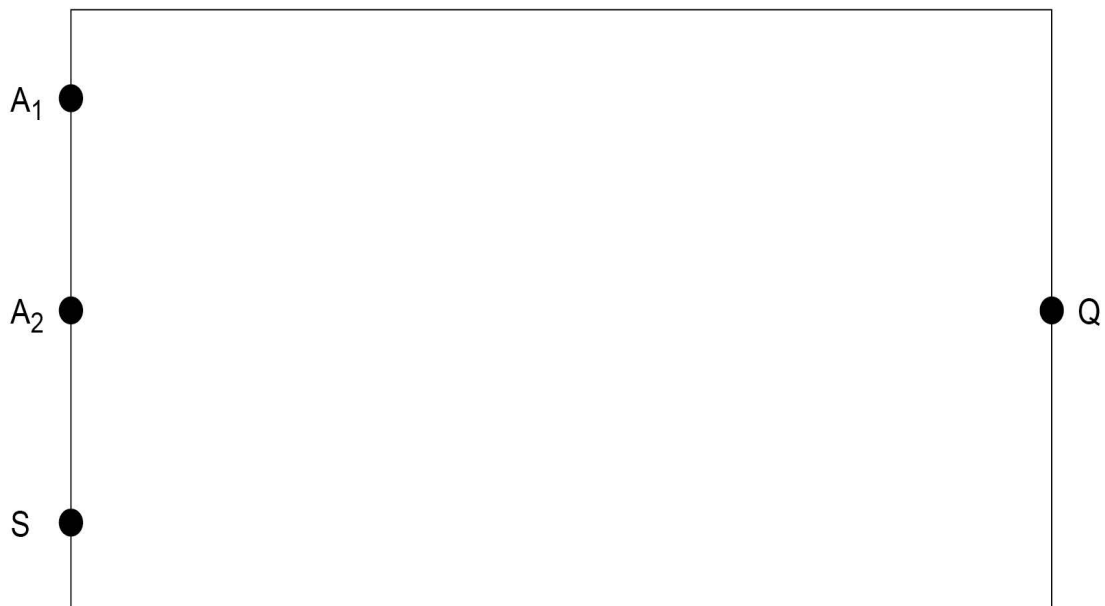
2

A logic circuit is being developed for an audio advert in a shop that plays automatically if a customer is detected nearby.

- The system has two sensors,  $A_1$  and  $A_2$ , that detect if a customer is near. The audio plays if either of these sensors is activated.
- The system should only play if another audio system, S, is not playing.
- The output from the circuit, for whether the advert should play or not, is Q.

Complete the logic circuit for this system.

[3 marks]



4

